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FILE 'WPIIDS' ENTERED AT 12:19:53 ON 16 JUL 1998

E AMERICAN HOME/PA  
L1 2651 S E4-E12  
E AM HOME/PA  
L2 1 S E4  
E A HOME/PA  
E AME HOME/PA  
E AMER HOME/PA  
L3 1 S E4  
E AMERI HOME/PA  
E AMERIC HOME/PA  
E AMERICA HOME/PA  
E AMERICANHOME/PA  
L4 2652 S L1-L3  
E AMHP/PA  
L5 3 S E3  
L6 2655 S L4,L5  
E AMHP/PACO  
L7 3327 S E3  
L8 3328 S L6,L7  
E AHMED F/AU  
L9 45 S E3-E5  
E SUN G/AU  
L10 102 S E3  
L11 147 S L9,L10  
4 S PESTICID? AND L8,L11  
L12 21 SEA P34?/M0,M1,M2,M3,M4,M5,M6 AND (L8 OR L11)  
L13 21 S L12,L13  
E FAKHRUDDIN A/AU  
L15 2 S E3  
L16 165 S L14,L11  
4 S L16 AND PESTICID?  
L17 21 S L17,L14  
L18 2 S L15 AND L18  
L19 3475 S L8,L11,L15  
L20 1 S L20 AND PESTIC? AND COAT?  
SEL PN APPS

FILE 'HCAPLUS' ENTERED AT 12:28:03 ON 16 JUL 1998

L22 1 S E1-E24  
SEL RN

FILE 'REGISTRY' ENTERED AT 12:28:28 ON 16 JUL 1998

L23 4 S E25-E28  
L24 2 S L23 AND PMS/CI  
L25 45384 S 80-62-6/CRN  
L26 27444 S 79-41-4/CRN  
L27 9467 S L25 AND L26  
L28 29 S L27 AND 2/NC  
L29 22 S L28 NOT (PROPANETRIOL OR OC5/ES)  
L30 19 S L29 NOT 46.150.18/RID  
L31 12 S L30 NOT (PROPANEDIOL OR SI/ELS OR GLUCO?)  
L32 9 S L31 NOT GRS/CI  
L33 621 S L27 AND 3/NC

L34 238 S L33 AND NR>=1  
L35 383 S L33 NOT L34  
E METHYL ACRYLATE/CN  
L36 1 S E3  
SEL RN  
L37 8591 S E1/CRN  
L38 5 S L37 AND L33  
L39 4 S L38 NOT DIMETHOXYMETHYLETHOXY  
E ETHYL ACRYATE/CN  
L40 1 S E5  
SEL RN  
L41 14512 S E1/CRN  
L42 3654 S L26 AND L41  
L43 2 S L42 AND 2/NC  
L44 15 S L32,L39,L43  
E CARBON BLACK/CN  
L45 1 S E3  
E BENZOPHENONE/CN  
L46 1 S E3  
L47 5 S E5-E9  
L48 1 S C14H12O3 AND L23  
L49 7015 S (METHANONE (L) PHENYL)/CNS AND 2/NR AND 1/NC  
L50 1 S TI/ELS AND L23  
L51 9 S L45-L48,L50  
L52 1 S L23 NOT L44,L51  
E STILBENE/CN  
L53 1 S E3  
L54 2 S L52,L53  
E PEG/CN  
L55 1 S E3  
E PPG/CN  
L56 1 S E3 NOT E4  
E CITRIC ACID, METHYL ESTER/CN  
E CITRIC ACID, METHYL ESTER/CN  
L57 1 S E3  
E CITRIC ACID, ETHYL ESTER/CN  
L58 1 S E3  
E CITRIC ACID/CN  
L59 1 S E3  
E DIETHYLPHTHALATE/CN  
E DIETHYL PHTHALATE/CN  
L60 1 S E3  
E DIBUTYL PHTHALATE/CN  
L61 1 S E3  
E TRIACETIN/CN  
L62 1 S E3  
L63 8 S L55-L62  
E CHLORFENAPYR/CN  
L64 1 S E3  
E HYDRAMETHYLNON/CN  
L65 1 S E3  
E IMIDACLOPRID/CN  
L66 1 S E3  
E FIPRONIL/CN  
L67 1 S E3  
E 1-(6-CHLORO-3-PYRIDYL)-2-(NITROMETHYLENE) IMIDAZOLIDINE/  
E 2-(NITROMETHYLENE) IMIDAZOLIDINE/CN  
L68 1 S E3

E 2-(NITROMETHYLENE)IMIDAZOLIDINE, 1-(6-CHLORO-3-PYRIDY)/  
L69 3963 S NCNC2/ES AND NC5/ES AND 2/NR  
L70 873 S L69 AND CL/ELS  
L71 251 S L70 AND NITRO  
L72 21 S L71 AND NITROMETHYLENE  
L73 72 S C9H9CLN4O2/MF  
L74 2 S L73 AND NCNC2/ES AND NC5/ES  
L75 5192 S (F AND CL)/ELS AND 46.150.18/RID AND C3/ES  
L76 611 S L75 AND PHENOXYPHENYL  
L77 16 S L76 AND BUTENYL  
L78 5 S L77 NOT CYANO  
L79 112 S L76 AND CHLOROPHENYL  
L80 10 S L79 AND 2/F  
L81 4 S C24H19CLF2O/MF  
L82 10 S L64-L67, L74, L81

FILE 'HCAPLUS' ENTERED AT 12:56:15 ON 16 JUL 1998

L83 3122 S L44  
L84 1 S L44 (L) AGR/RL  
L85 14 S L44 AND 5/SC, SX  
L86 1 S L44 AND PESTICID?  
L87 14 S L84-L86  
L88 1 S L87 AND L22  
L89 13 S L87 NOT L88  
L90 1 S L87 AND L51  
L91 2 S L87 AND (CARBON BLACK OR BENZOPHENON? OR DYE OR TIO2 OR  
L92 2 S L87 AND L63  
L93 1 S L87 AND CASTOR  
L94 14 S L87-L93  
SEL HIT RN 1-14

FILE 'REGISTRY' ENTERED AT 12:59:10 ON 16 JUL 1998

L95 7 S E1-E7

FILE 'HCAPLUS' ENTERED AT 12:59:27 ON 16 JUL 1998

L96 1 S E6  
L97 14 S L94, L96

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 13:01:48 ON 16 JUL 1998  
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FILE LAST UPDATED: 16 Jul 1998 (980716/ED)

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=> d bib abs hitrn tot 194

L94 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
AN 1996:336392 HCAPLUS  
DN 124:352815  
TI Apparatus and method for preparing solid forms with controlled release of the active ingredient  
IN Rodriguez, Lorenzo; Cini, Maurizio; Cavallari, Cristina; Motta, Giuseppe  
PA Saitec S.R.L., Italy  
SO PCT Int. Appl., 37 pp.  
CODEN: PIXXD2  
PI WO 9603979 A1 960215  
DS W: AU, BG, BR, CA, CN, CZ, FI, HU, JP, KR, MX, NO, NZ, PL, RO, RU,  
SI, SK, UA, US  
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  
AI WO 95-IT48 950406  
PRAI IT 94-BO379 940803  
DT Patent  
LA English  
AB An improved app. and method for prep. solid forms with controlled release of the active ingredient according to the spray drying and spray congealing techniques is disclosed. The improvement involves the use of an atomizer utilizing the mech. vibrations of resonant metal elements or nozzles so as to obtain very small droplets with very short spray length (25-30 cm). These droplets fall to give spherical powder particles owing to the evapn. of the contained solvents or of the quenching solidification of the melted waxy components. A soln. contg. ketoprofen 1.5, Eudragit S100 1.5, Eudraflex 0.15, and 2:1 mixt. of acetone and methylene chloride 20 g was transferred at the rate of 50 L/h on an atomizer vibrating at 40 kHz. Very little droplets were obtained that, owing to solvent evapn., falling in the air after a run of 1.5 m were transformed in perfectly spherical particles. The controlled-release property of the microspheres were evaluated in simulated gastric juice.  
IT 25086-15-1, Eudragit s 100  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(app. for prepn. of controlled-release pharmaceutical and cosmetic and agricultural products)

L94 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
AN 1996:200290 HCAPLUS  
DN 124:223756  
TI Coated pesticides for protection against UV inactivation.  
IN Fakhruddin, Ahmed  
PA American Cyanamid Company, USA  
SO Eur. Pat. Appl., 28 pp.  
CODEN: EPXXDW  
PI EP 697170 A1 960221  
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,  
SE  
AI EP 95-305237 950727

PRAI US 94-281916 940727  
 US 94-322679 941013  
 DT Patent  
 LA English  
 AB **Pesticides**, esp. viral insecticides, such as V8vEGTDEL polyhedrin inclusion bodies, are protected against UV inactivation by coating with a compn. comprising pH-dependent polymer 2-25, plasticizer 0-5, UV protector 5-45, stilbene compd. 0-75, disintegrating agent 0-10, and glidant 0-10%. Suitable polymers are Eudragit S100 and Cypress 48, and suitable UV protectors Cyasorb UV9, charcoal and TiO<sub>2</sub>. The coated insecticides are formulated as wettable powders.  
 IT 131-57-7, Cyasorb UV9 13463-67-7, Titanium dioxide, uses 25086-15-1, Eudragit S100  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (coated insecticides for protection against UV inactivation.)

L94 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1995:944955 HCAPLUS  
 DN 124:32229  
 TI Partially unsaturated triorganotin compounds for use in marine antifouling biocidal coating  
 IN Dooley, Carol A.; Lindner, Elek  
 PA United States Dept. of the Navy, USA  
 SO U.S., 9 pp.  
 CODEN: USXXAM  
 PI US 5451618 A 950919  
 AI US 93-175890 931230  
 DT Patent  
 LA English  
 OS MARPAT 124:32229  
 AB Triorganotin toxicants are disclosed that are made of mixed satd. and unsatd. four-carbon chains with double bonds at C1 and C3. Incorporation of these compds. into random 50:50 copolymers of methacrylic acid and Me methacrylate produces copolymer compns. that may be used as antifouling coatings for ship hulls. Methods for manufg. the triorganotin toxicants and the copolymer compns. are also disclosed.  
 IT 25086-15-1D, Methacrylic acidmethyl methacrylate copolymer, ester with triorganotin compd.  
 RL: BUU (Biological use, unclassified); RCT (Reactant); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
 (triorganotin-contg.; partially unsatd. triorganotin compds. for use in marine antifouling biocidal coating)

L94 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1995:422885 HCAPLUS  
 DN 122:170256  
 TI Poly(meth)acrylate microparticles containing active agents  
 IN Lahr, Wolfgang  
 PA Henning Berlin GmbH, Germany  
 SO Ger. Offen., 7 pp.  
 CODEN: GWXXBX  
 PI DE 4328069 A1 950223  
 AI DE 93-4328069 930820  
 DT Patent  
 LA German

- AB Microparticles contg. a water-insol. or poorly sol. active agent (pharmaceutical, **dye**, pigment, aroma or flavoring material, agrochem., etc.) are prep'd. from an aq. poly(meth)acrylate dispersion by controlled coagulation by addn. of a soln. of a strong electrolyte. Thus, to a dispersion of 1.5 g Eudragit L30D (0.45 g dry wt.) in 60 g H<sub>2</sub>O was added 0.1 g beclomethasone dipropionate (particle size <20 .mu.m) with stirring, followed by 15 mL aq. coagulation medium contg. NaCl 5 and PEG-6000 0.75 g/45 g H<sub>2</sub>O. After coagulation, micronized talc 0.5 and microcryst. cellulose 30.0 g were added, the suspension was heated to 60.degree., cooled, filtered, and the retained solids were washed with water and dried.
- IT 77-92-9, Citric acid, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coagulating agent; poly(meth)acrylate microparticles contg. active agents)
- IT 25212-88-8, Eudragit L30D  
 RL: AGR (Agricultural use); BUU (Biological use, unclassified); FFD (Food or feed use); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (poly(meth)acrylate microparticles contg. active agents)
- IT 25322-68-3, Polyethylene glycol  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (poly(meth)acrylate microparticles contg. active agents)

- L94 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1994:452419 HCAPLUS  
 DN 121:52419  
 TI Sustained-release ectoparasiticidal composition.  
 IN Giroux, Jean Marc  
 PA Health Business Development, Fr.  
 SO Fr. Demande, 17 pp.  
 CODEN: FRXXBL  
 PI FR 2696902 A1 940422  
 AI FR 92-12577 921021  
 DT Patent  
 LA French  
 AB The title compn., suitable for application to the hair and skin of humans and animals, comprises an insecticide, acaricide and/or insect repellent, incorporated into a film-forming acrylic polymer. The polymer film is insol. in water, but permeable to air and vapors. A suitable polymer is poly(Et acrylate-methacrylic acid) (75-95:95-5), contg. <50 ppm residual monomers. The compns. are prep'd. as aq. alc. solns.
- IT 84-74-2, Dibutyl phthalate 25212-88-8  
 RL: BIOL (Biological study)  
 (ectoparasiticidal compn. contg., sustained release)

- L94 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1994:156746 HCAPLUS  
 DN 120:156746  
 TI Laminated materials releasing volatile insect repellents  
 IN Nakade, Yoshiko; Nakagawa, Takashi  
 PA Sekisui Chemical Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 PI JP 05339102 A2 931221 Heisei  
 AI JP 92-144267 920604

DT Patent  
LA Japanese  
AB A swollen gel layer contg. a volatile agent is laminated with an adhesive layer. For example, an insect repellent was prep'd. by laminating a polyethylene terephthalate film which had been coated with a mixt. of poly(vinyl alc.), acetaldhyde, glycerin, and N,N-diethyl-m-toluamide (an insect repellent), with another polyethylene terephthalate film coated with an adhesive (2-ethylhexyl acrylate-vinylpyrrolidone copolymer).  
IT 25212-88-8, Ethyl acrylate-methacrylic acid copolymer  
RL: BIOL (Biological study)  
(adhesive, on film contg. insect repellent)

L94 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
AN 1993:34439 HCAPLUS  
DN 118:34439  
TI Insecticides microencapsulated into lignin  
IN Moss, Richard D.; Lim, Franklin  
PA Lim Laboratories, Inc., USA  
SO PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
PI WO 9219102 A1 921112  
DS W: AU, CA, JP, KR, NO  
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE  
AI WO 92-US3727 920505  
PRAI US 91-696113 910506  
DT Patent  
LA English  
AB Insecticides are microencapsulated into lignin, optionally blended with an acrylic polymer. A soln. of 14.4 g Eudragit S-100 and 1 g NaOH in 120 g 40% PEG-400 was stirred into a mixt. of 20 g lignin, 15 g PEG, and 15 g water. The product (10 g) was treated with 333 .mu.L micronized Amdro, followed by emulsification with 12.5 g SPAN-85-soybean oil mixt. (50:50). Capsules were formed by pouring 32 mL 7% Tween-20 in acetate buffer into the emulsion.  
IT 25086-15-1, Eudragit S-100  
RL: BIOL (Biological study)  
(insecticide microencapsulation into lignin and)

L94 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
AN 1991:542330 HCAPLUS  
DN 115:142330  
TI Topical preparations containing (meth)acrylic copolymers  
IN Nakagawa, Akira; Myata, Satoru; Masuda, Kenji  
PA Hisamitsu Pharmaceutical Co., Inc., Japan  
SO Jpn. Kokai Tokkyo Koho, 5 pp.  
CODEN: JKXXAF  
PI JP 03077820 A2 910403 Heisei  
AI JP 89-213875 890818  
DT Patent  
LA Japanese  
AB Topical prepns. contain (meth)acrylic copolymers, lower alcs., H2O, and active ingredients (e.g. pharmaceuticals, cosmetics, and insect-repellents). The prepns. are safe, quickly dry after application to the skin, and the resulting membranes firmly adhere to the skin. Clotrimazole 1, EtoH 60, Eudragit L 100 1, diisopropanol 1, and H2O 37 g were mixed to give a topical soln.  
IT 25086-15-1, Eudragit L 100 25212-88-8, Eudragit

L30D-55

RL: BIOL (Biological study)  
 (topical preps. contg.)

L94 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1991:403161 HCAPLUS  
 DN 115:3161  
 TI Deodorizing, bactericidal, and fungicidal compositions comprising carboxyl group-containing polymers and metal compounds.  
 IN Tachikawa, Ryuichi  
 PA Daicel Chemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXXAF  
 PI JP 02288804 A2 901128 Heisei  
 AI JP 89-168744 890630  
 PRAI JP 88-195792 880805  
 JP 88-250308 881004  
 JP 89-10484 890119  
 JP 89-29132 890208  
 DT Patent  
 LA Japanese  
 AB The title compns. are aq. solns. or dispersions contg. (A) H<sub>2</sub>O-sol. or dispersable (co)polymers contg. (i) .gt;eq.30 mol% (metal salts of) CO<sub>2</sub>H-contg. monomers or (ii) (metal salts of) CO<sub>2</sub>H-contg. monomers 5-98, ionic monomers 1-50, and other monomers 1-50 mol and (B) 0.1-1.0 equiv. (based on the CO<sub>2</sub>H of the polymers) compds. of Zn, Ag, Cu, Al, Ti, and/or Zr. Porous sheet materials (esp. textiles) are treated with the compns. or components A, followed by treatment with components B and/or 0.1-1.0 equiv (based on the CO<sub>2</sub>H of the polymers) [RNMe<sub>2</sub>CH<sub>2</sub>Ph]<sup>+</sup> Cl<sup>-</sup> (R = C<sub>12</sub>-18 alkyl) to form H<sub>2</sub>O-insol. deodorizing, bactericidal, and fungicidal compds. in the sheet materials. Aqualic MP 30 [poly(acrylic acid) Na salt, d.p. 400, solid content 30.0%] (500 g) was dissolved in 2 kg H<sub>2</sub>O and mixed with soln. of 142.8 g ZnSO<sub>4</sub> in 1 kg H<sub>2</sub>O to give a Zn salt-dispersed soln. (solid content 14.5%), which (100 g) was mixed with ethylene-vinyl acetate copolymer emulsion 17.2, H<sub>2</sub>O 111.8, and defoamer 0.08 g. Cotton cloth was soaked in the product, dried, and thermally set to show good deodorizing effect even after repeated washing, vs. poor deodorizing effect, when the cloth was treated with com. available FeSO<sub>4</sub>-based deodorant instead of the Zn salt-dispersed soln.  
 IT 25212-88-8D, Ethyl acrylate-methacrylic acid copolymer, reaction product with metal compds.  
 RL: BIOL (Biological study)  
 (deodorant and microbicide, for textiles)

L94 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
 AN 1990:574510 HCAPLUS  
 DN 113:174510  
 TI Polymeric compositions for controlled release of active ingredients and their preparation  
 IN Langley, John; Symes, Kenneth Charles  
 PA Allied Colloids Ltd., UK  
 SO Eur. Pat. Appl., 9 pp.  
 CODEN: EPXXDW  
 PI EP 361677 A1 900404  
 DS R: BE, CH, DE, FR, GB, GR, LI, NL, SE  
 AI EP 89-308606 890824

PRAI GB 88-20061 880824  
 GB 88-20062 880824  
 GB 89-1194 890119

DT Patent

LA English

AB The title compns. comprise an active ingredient, such as a detergent enzyme or a *Bacillus Thuringiensis* toxin for killing larvae in livestock feces, distributed throughout a matrix contg. a relatively large amt. of polymeric material which is sol. and swellable in aq. alkali but less sol. and swellable at lower pH and is in the form of a dried oil-in-water emulsion of the polymer or a relatively insol. partial salt of the polymer with a volatile amine, the full salt being relatively sol. The active ingredient is protected during storage in a liq. acidic media and is released in liq. alk. media. A soln. prep'd. from 640 g 25% aq. Bu acrylate-methacrylic acid copolymer emulsion (pH 4) and 160 g 5% detergent protease soln. was adjusted to pH 7, mixed with 1600 g water-immiscible liq. (Solvent 41) and 53 g 15% soln. of amphipathic polymeric stabilizer in an inorg. solvent, stirred 5 min to form droplets, and azeotropically distd. at reduced pressure to form beads (250-500 .mu.m) which were insol. in tap water but dissolved in water at pH 9.

IT 25212-88-8, Ethyl acrylate-methacrylic acid copolymer

RL: USES (Uses)

(encapsulation by, of larvicides and detergent enzymes, for release in alk. soln.)

L94 ANSWER 11 OF 14 HCPLUS COPYRIGHT 1998 ACS

AN 1990:402003 HCPLUS

DN 113:2003

TI Antifouling agent containing a triorganotin-bound copolymer and mineral oil, for fish nets

IN Inada, Akihiro; Mori, Kiyomi

PA Nitto Kasei Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

PI JP 01193201 A2 890803 Heisei

AI JP 88-19365 880128

DT Patent

LA Japanese

AB Fish nets are coated with a fouling control agent comprising 99-50% by wt. of a copolymer contg. .gtoreq.1 CO<sub>2</sub>SnR<sub>3</sub> group (R = lower alkyl, Ph), and 1-5% by wt. refined mineral oil. Tributyltin methacrylate 260 g, Me methacrylate 140 g, xylene 400 g, and Bz202 5 g were refluxed at 90-95.degree. for 8 h, to give a soln. with viscosity 525 cP (25.degree.). This soln. (60 parts) was mixed with 5 parts machine oil. Fish nets, coated with the compn., showed better fouling control than nets coated with this compn. without mineral oil.

IT 25086-15-1D, Methacrylic acid-methyl methacrylate copolymer, reaction products with bis(tributyltin) oxide

RL: BIOL (Biological study)

(fouling control agents contg. mineral oil and, for fish nets)

L94 ANSWER 12 OF 14 HCPLUS COPYRIGHT 1998 ACS

AN 1989:445296 HCPLUS

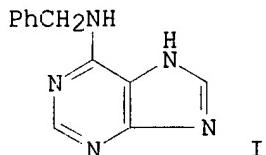
DN 111:45296

TI Method of formation of colloidal nanoparticles

IN Fessi, Hatem; Devissaguet, Jean Philippe; Puisieux, Francis; Thies,

Curt  
 PA Centre National de la Recherche Scientifique, Fr.  
 SO Fr. Demande, 23 pp.  
 CODEN: FRXXBL  
 PI FR 2608988 A1 880701  
 AI FR 86-18446 861231  
 DT Patent  
 LA French  
 AB Dispersible colloids contg. spherical nanoparticles with diam. <500 nm are prep'd. by 1) dissolving a material in a liq. or liq. mixt., 2) prep'g. a second liq. or liq. mixt. which is miscible with the first liq., but which is not a solvent for the material, and optionally adding a surfactant, 3) mixing the 2 solns. with agitation, to form a colloid, and 4) optionally eliminating some or all of any or all of the liqs. The method may be used in all areas of chem., e.g. medicine, agriculture, polymers, pigments, fabric treatment, photog., etc. Indomethacin was dissolved in acetone and added to a soln. of Pluronic F68 in water with stirring, and the org. solvent was removed, to give spherical, non-cryst. nanoparticles of 290 nm. Oral administration of the colloidal suspension at 5 mg/kg in rats results in faster bioabsorption than administration of the same amt. of indomethacin in soln. When administered i.v. at 5 mg/kg in rats, the colloidal indomethacin had a greater bioavailability and longer half-life than indomethacin administered at 5 mg/kg i.v. in soln.  
 IT 25086-15-1P, Eudragit L 100  
 RL: PREP (Preparation)  
 (microparticles of, manuf. of)

L94 ANSWER 13 OF 14 HCPLUS COPYRIGHT 1998 ACS  
 AN 1979:469880 HCPLUS  
 DN 91:69880  
 TI Controlled release of plant hormones from natural and synthetic polymers  
 AU Bittner, Shmuel; Perry, Israel  
 CS Dep. Chem., Ben-Gurion Univ., Beer Sheva, Israel  
 SO Chim. Ind. (Milan) (1979), 61(4), 291-7  
 CODEN: CINMAB; ISSN: 0009-4315  
 DT Journal  
 LA English  
 GI



AB Kinetics of the sustained release of cytokinins, e.g. benzyladenine (I) [1214-39-7], kinetin [525-79-1], and iso-pentenyladenine [2365-40-4], from polysaccharides, e.g. starch [9005-25-8] and cellulose [9004-34-6] or from synthetic polymers, e.g. methacrylic acid-Me methacrylate copolymer (II) [25086-15-1], are discussed. The release rate of cytokinins was followed

spectrophotometrically at 260 nm and depended on the pH. No significant difference was obsd. between the rates of release from starch or cellulose. With bound cytokinin, it was possible to introduce into the medium 20-fold the optimum quantity of hormone, without causing any growth inhibitory effects. Drawbacks of using cytokinin-polysaccharide are discussed. With II, the release rate of cytokinins depended on the molar ratio of methacrylic acid (III) in II; II contg. 40% III, released <20% of its entrapped hormone during 100 h, whereas II contg. 70-80% III released 90% of its hormone during the same period. The mechanism of release of the hormones from II is discussed.

IT **25086-15-1**

RL: BIOL (Biological study)  
(cytokinins sustained release from, kinetics of)

L94 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 1998 ACS  
AN 1976:429574 HCAPLUS  
DN 85:29574  
TI Herbicide  
IN Savel'ev, V. Ya.; Stel'mashchuk, V. A.; Pen'kov, A. I.; Sukharev, S. S.; Gavrilova, L. V.; Shtefan, V. N.; Metlev, L. P.; Zamotova, N. V.; Kiseleva, R. L.  
PA USSR  
SO U.S.S.R.  
From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1976, 53(11), 8-9.  
CODEN: URXXXAF  
PI SU 507289 760325  
AI SU 74-2082274 741210  
DT Patent  
LA Russian  
AB A Me methacrylate-methacrylic acid copolymer [25086-15-1] added to 2,4-D [94-75-7] esters at ratios of 0.5-6:0.1-4 increased the thermal and storage stability of the herbicides.

IT **25086-15-1**

RL: BIOL (Biological study)  
(herbicide stability increase by)

=> s 197 not 194

L98 0 L97 NOT L94

=> fil reg

FILE 'REGISTRY' ENTERED AT 13:02:09 ON 16 JUL 1998  
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STRUCTURE FILE UPDATES: 10 JUL 98 HIGHEST RN 208329-94-6  
DICTIONARY FILE UPDATES: 15 JUL 98 HIGHEST RN 208329-94-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 14, 1998

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Stereochemical name changes have been adopted and appear in CN's

REFERENCE 8: 129:32157

REFERENCE 9: 129:31381

REFERENCE 10: 129:31327

=> fil wpids

FILE 'WPIDS' ENTERED AT 13:02:36 ON 16 JUL 1998  
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FILE LAST UPDATED: 15 JUL 1998 <19980715/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK 199828 <199828/DW>

DERWENT WEEK FOR CHEMICAL CODING: 199823

DERWENT WEEK FOR POLYMER INDEXING: 199825

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE  
>>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -

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>>> MEXICO NOW COVERED - SEE NEWS <<<

=> d all 121

L21 ANSWER 1 OF 1 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 96-107107 [12] WPIDS

CR 96-117054 [12]

DNC C96-033969

TI Prodn. of **coated pesticidal** agent, esp.  
insecticidal virus - using pH-dependent polymer and ultraviolet  
protector.

DC A97 C05 C07

IN **FAKHRUDDIN, A; AHMED, F; BLACK, B C; DIERKS, P**  
M; FLEMING, N C; MILLER, L K

PA (AMCY) AMERICAN CYANAMID CO; (UYGE-N) UNIV GEORGIA RES FOUND

CYC 27

PI EP 697170 A1 960221 (9612)\* EN 28 pp A01N025-26  
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE  
AU 9527219 A 960208 (9613) A01N025-26  
BR 9503455 A 960312 (9616) A01N025-26  
CA 2154640 A 960128 (9620) C12N011-08  
CZ 9501928 A3 960417 (9623) A01N025-26  
JP 08109103 A 960430 (9627) 17 pp A01N025-26  
SK 9500952 A3 960508 (9627) A01N025-26  
ZA 9506277 A 970326 (9718) 46 pp A01N000-00  
US 5662897 A 970902 (9741) 32 pp A01N063-00  
NZ 272661 A 971219 (9807) A01N025-12  
HU 76656 T 971028 (9815) A01N025-26  
HU 214499 B 980330 (9823) A01N025-26

ADT EP 697170 A1 EP 95-305237 950727; AU 9527219 A AU 95-27219 950727;  
BR 9503455 A BR 95-3455 950726; CA 2154640 A CA 95-2154640 950725;  
CZ 9501928 A3 CZ 95-1928 950726; JP 08109103 A JP 95-209348 950726;  
SK 9500952 A3 SK 95-952 950727; ZA 9506277 A ZA 95-6277 950727; US  
5662897 A US 94-281916 940727; NZ 272661 A NZ 95-272661 950727; HU  
76656 T HU 95-2242 950726; HU 214499 B HU 95-2242 950726

FDT HU 214499 B Previous Publ. HU 76656

PRAI US 94-322679 941013; US 94-281916 940727

IC ICM A01N000-00; A01N025-12; A01N025-26; C12N011-08

ICS A01N025-00; A01N025-10; A01N025-14; A01N025-22; A01N063-04;  
C12N007-01

ICA A01N063-00; C12N007-00

ICI A01N025:26, A01N063-00; A01N025:26, A01N063-04; C12N007-00, C12R001:

AB EP 697170 A UPAB: 960322

Prodn. of a **coated pesticidal** agent comprises:

(a) preparing an aq. mixt. of a pH-dependent polymer (I) and opt. a plasticiser; (b) dissolving (I) by adjusting the pH of the mixt. to above the solubilisation pH of (I); (c) adding a **pesticide**, a UV protector and opt. a stilbene cpd., a disintegrant and/or a glidant to the soln. and blending to form a homogeneous suspension; (d) drying the suspension; and (e) opt. milling the dried material.

Also claimed are: (A) the prodn. of a **coated**

**pesticidal** agent by blending a mixt. of (I), a **pesticide**, a UV protector and opt. the above optional components in a solvent comprising acetone and/or a 1-3C alcohol, and performing steps (d) and (e) as above; (B) a **coated**

**pesticidal** agent comprising a **pesticide** core

surrounded by a matrix comprising (by wt.) 2-25% (I), 0-5% plasticiser, 5-45% UV protector, 0-75% stilbene cpd., 0-10% disintegrant and 0-10% glidant; and (C) a wettable powder compsn. comprising (by wt.) 2-25% wetting agent, 2-40% dispersant, 10-70% bulking agent, 1-10% flow enhancer, 0-20% pH modifying agent and 5-75% of a **coated pesticidal** agent as in (B).

ADVANTAGE - The **coating** protects sensitive **pesticides**, esp. insecticidal viruses, from inactivation by UV light. The processes are less laborious and provide better protection than prior art microencapsulation methods.

Dwg.0/7

FS CPI

FA AB; DCN

MC CPI: A12-W04C; C04-C03; C10-J02; C12-M11E

=> fil wpids

FILE 'WPIDS' ENTERED AT 13:12:43 ON 16 JUL 1998  
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FILE LAST UPDATED: 15 JUL 1998 <19980715/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK 199828 <199828/DW>

DERWENT WEEK FOR CHEMICAL CODING: 199823

DERWENT WEEK FOR POLYMER INDEXING: 199825

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -

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>>> MEXICO NOW COVERED - SEE NEWS <<<

=> d his 199-

(FILE 'REGISTRY' ENTERED AT 13:02:09 ON 16 JUL 1998)

FILE 'WPIDS' ENTERED AT 13:02:36 ON 16 JUL 1998

L99 305 S A01N025-26/ICM, ICS, ICA, ICI

L100 105 S L99 AND (POLYMER? OR COPOLYMER?)

L101 25 S L99 AND C04-C03/MC

L102 110 S L100,L101  
 L103 41 S A01N025-26/ICM AND L102  
 L104 3 S L103 AND PLASTIC?  
 L105 2 S L103 AND (UV OR ULTRAVI? OR ULTRA)  
 L106 4 S L104,L105  
 L107 3 S L106 NOT L21  
 L108 37 S L103 NOT L106

FILE 'WPIDS' ENTERED AT 13:12:43 ON 16 JUL 1998

=> d 1107 bib abs tot

L107 ANSWER 1 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 95-374948 [49] WPIDS  
 DNC C95-162413  
 TI 3-Iothiazolone encapsulated in polyurea particles - used as biocide, e.g. antifouling agent in paints, with reduced skin sensitising effect.  
 DC A97 C02 D22 E13 G02  
 IN EL, AMMA B J; REDLICH, G H; AMMA, B J  
 PA (ROHM) ROHM & HAAS CO  
 CYC 22  
 PI EP 679333 A2 951102 (9549)\* EN 7 pp  
     R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE  
 AU 9516557 A 951109 (9601)  
 JP 07300401 A 951114 (9603) 1 pp <--  
 CA 2147564 A 951029 (9611)  
 BR 9501797 A 960305 (9615)  
 EP 679333 A3 960103 (9620)  
 CN 1114525 A 960110 (9740)  
 SG 46133 A1 980220 (9821)  
 ADT EP 679333 A2 EP 95-302469 950412; AU 9516557 A AU 95-16557 950419;  
     JP 07300401 A JP 95-127387 950428; CA 2147564 A CA 95-2147564  
     950421; BR 9501797 A BR 95-1797 950426; EP 679333 A3 EP 95-302469  
     950412; CN 1114525 A CN 95-105185 950428; SG 46133 A1 SG 95-343  
     950427  
 PRAI US 94-234803 940428  
 AN 95-374948 [49] WPIDS  
 AB EP 679333 A UPAB: 951211  
 A novel compsn. (I) comprises particles of polyurea (PVA) encapsulating a 3-isothiazolone (II), pref. 4,5-dichloro-2-n-octyl-3-isothiazolone (IIa) or 2-n-octyl-3-isothiazolone (IIb). Also claimed are: (a) a caulk, sealant, paint, varnish, mastic, adhesive, film-forming **polymer**, wood impregnant, **plastic**, metal-working fluid, cosmetic compsn. in rubber contg. (I); (b) a marine antifouling paint comprising a film-forming **polymer**, a pigment and (I) in which (II) is (IIa); (c) a decorative paint comprising a film-forming **polymer**, a pigment and (I), where the (I) particles have dia. less than 20 microns and form 0.03-0.5 wt.% of the paint; (d) a substrate (pref. a marine structure such as a ship, floating platform, pier, rig or fish net) coated with a paint as in (b) or (c); (e) a method of reducing the skin sensitising effect of a compsn. contg. (II), by encapsulating (II) in PVA particles and dispersing the particles in the compsn.; and (f) the use of (I) to reduce the skin sensitising effect of (II).  
 USE - (II) are biocides, used in compsns. such as those listed

in (a) to control mildew or prevent fouling. (IIa) and (IIb) are pref'd. as mildewcides (usually in decorative or architectural coatings), and (IIa) is pref'd. by marine applications. Encapsulation of (II) in PVA reduces the problem of skin sensitisation by exposure to (II), e.g. in painters exposed to wet paint contg. (II).

**ADVANTAGE** - (I) has markedly lower skin sensitisation potential than unencapsulated (II) or (II) encapsulated to other **polymers**.

Dwg.0/0

L107 ANSWER 2 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 95-270264 [36] WPIDS  
 DNC C95-122447  
 TI Pesticidal compsns. with improved stability - comprising a pesticidal active agent and a light-absorbing agent, coated with a non-lignin based pH-sensitive **polymer**..  
 DC A97 C05 D16  
 IN HERBIG, S H; SMITH, K L  
 PA (BEND-N) BEND RES INC  
 CYC 3  
 PI DE 19503157 A1 950803 (9536)\* DE 14 pp <--  
 IT 1272943 B 970701 (9812)  
 US 5750126 A 980512 (9826)  
 ADT DE 19503157 A1 DE 95-19503157 950201; IT 1272943 B IT 95-MI177  
 950201; US 5750126 A Cont of US 94-189905 940201, US 96-584986  
 960111  
 PRAI US 94-189905 940201; US 96-584986 960111  
 AN 95-270264 [36] WPIDS  
 AB DE19503157 A UPAB: 950918  
 Pesticidal compsn. comprises: (a) particles with a pesticidal active agent; (b) a non-lignin based pH-sensitive **polymer** which coats component (a); and (c) a light-absorbing active agent.  
 USE - The compsns. are useful as insecticides, e.g., against Cydia pomonella, Plutella xylostella, Trichoplusia ni, Hellula undalis, Heliothis virescens, etc.. They may be used in plant protection.  
**ADVANTAGE** - The compsns. have excellent insecticide activity, and show improved active life of the active agent (due to improved resistance to UV light).  
 Dwg.0/0

L107 ANSWER 3 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 91-333840 [46] WPIDS  
 CR 92-064634 [08]; 92-064635 [08]; 92-064636 [08]; 92-064637 [08];  
 92-298964 [36]; 92-366118 [44]; 92-417484 [51]; 93-010544 [02];  
 93-028785 [04]; 93-152332 [18]; 93-319747 [40]; 93-344603 [43];  
 94-208327 [25]; 94-224864 [27]; 94-293133 [36]; 95-240003 [31];  
 95-253848 [32]; 98-017009 [05]; 98-031172 [32]  
 DNN N91-255822 DNC C91-144052  
 TI Foil container for storing dangerous liq. or gel-form chemicals - consists of laminate foil to minimise risk of chemicals leaking of through pores.  
 DC A14 A92 A97 C03 C07 P11 P54 P73 Q31 Q32 Q34  
 IN CHEN, C R; GOUGE, S T; HODAKOWSKI, L E; WEBER, P J; EDWARDS, D B;  
 MCCARTHY, W J  
 PA (RHON) RHONE POULENC AGROCHIMIE; (RHON) RHONE POULENC AGRIC  
 LTD;  
 (RHON) RHONE-POULENC AGROC; (RHON) RHONE POULENC CO AG; (RHON)

## RHONE

POULENC AGRIC; (RHON) RHONE-POULENC AGROCHIMIE; (RHON)

## RHONE-POULENC

AGRIC; (RHON) RHONE-POULENC AGRIC LTD; (RHON) RHONE POULENC INC;

(RHON) RHONE POULENC SA

CYC 45

PI DE 4113786 A 911107 (9146)\* 6 pp

GB 2244258 A 911127 (9148)

NL 9100706 A 911202 (9151)

AU 9176114 A 911107 (9201)

SE 9101245 A 911103 (9201)

BR 9101835 A 911217 (9204)

CA 2041313 A 911103 (9205)

US 5080226 A 920114 (9206)

FI 9102135 A 911103 (9207)

WO 9201374 A 920206 (9208)

RW: AT BE CH DE DK ES FR GB GR IT LU NL OA SE

W: AT AU BB BG BR CA CH CS DE DK ES FI GB HU JP KP KR LK LU MC  
MG MW NL NO PL RO SD SE SU

CS 9101249 A 911217 (9209)

AU 9180396 A 920123 (9214)

LU 87924 A 920303 (9214)

FR 2665889 A 920221 (9217) 14 pp

AU 9181052 A 920218 (9222)

ZA 9103276 A 920429 (9222) 12 pp

FI 9201139 A 920317 (9225)

DK 9100811 A 911103 (9226)

EP 493553 A1 920708 (9228) EN 29 pp

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

ZA 9105641 A 920624 (9231) 27 pp

CN 1056468 A 911127 (9234)

CS 9102215 A2 920219 (9238)

JP 04225903 A 920814 (9239) 5 pp

BE 1003800 A5 920616 (9240) 17 pp

CN 1058191 A 920129 (9240)

BR 9105833 A 920929 (9244)

NZ 238015 A 921125 (9305)

JP 05501719 W 930402 (9318) 11 pp

ES 2033572 A1 930316 (9322)

TW 200436 A 930221 (9329)

DE 4143441 A1 930826 (9335)

HU 63109 T 930728 (9336)

PT 97521 A 930831 (9338)

HU 63301 T 930830 (9340)

NL 9300911 A 931001 (9343) 9 pp

GB 2244258 B 931110 (9345)

PT 98351 A 931029 (9346)

ES 2033572 B1 940301 (9413)

DE 4143503 A1 940407 (9415)

DE 4143505 A1 940414 (9416)

NZ 239001 A 940325 (9426)

AU 651981 B 940811 (9435)

IL 97977 A 940826 (9435)

CA 2066424 C 940920 (9438)

CH 684468 A5 940930 (9438)

DE 4143441 C2 941020 (9440) 5 pp

AU 653519 B 941006 (9441)

US 5358103 A 941025 (9442) 7 pp

&lt;--

DE 4113786 C2 941117 (9444) 6 pp  
 CA 2041313 C 941213 (9505)  
 ES 2065293 A1 950201 (9511)  
 ES 2065293 B1 950801 (9537)  
 IE 64670 B 950823 (9542)  
 IT 1250919 B 950421 (9545)  
 JP 08022802 B2 960306 (9614) 4 pp  
 JP 2518759 B2 960731 (9635) 9 pp  
 EP 493553 B1 970319 (9716) EN 16 pp  
 R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE  
 RO 110895 B1 960530 (9719)  
 RU 2066666 C1 960920 (9719) 6 pp  
 RU 2067547 C1 961010 (9721) 9 pp  
 DE 69125261 E 970424 (9722)  
 US 5624034 A 970429 (9723) 4 pp  
 ES 2099163 T3 970516 (9727)  
 HU 212035 B 960129 (9738)  
 NL 192873 B 971201 (9802) 5 pp  
 CZ 283327 B6 980218 (9813)  
 ADT DE 4113786 A DE 91-4113786 910426; GB 2244258 A GB 91-9503 910502;  
 NL 9100706 A NL 91-706 910423; US 5080226 A US 90-554615 900718; FR  
 2665889 A FR 91-5649 910430; AU 9181052 A AU 91-81052 910718, WO  
 91-EP1348 910718; ZA 9103276 A ZA 91-3276 910430; FI 9201139 A WO  
 91-EP1348 910718, FI 92-1139 920317; DK 9100811 A DK 91-811 910501;  
 EP 493553 A1 EP 91-912408 910718, WO 91-EP1348 910718; ZA 9105641 A  
 ZA 91-5641 910718; CN 1056468 A CN 91-102811 910429; CS 9102215 A2  
 CS 91-2215 910717; JP 04225903 A JP 91-100176 910501; BE 1003800 A5  
 BE 91-399 910430; CN 1058191 A CN 91-104959 910718; BR 9105833 A BR  
 91-5833 910718, WO 91-EP1348 910718; NZ 238015 A NZ 91-238015  
 910501; JP 05501719 W JP 91-511866 910718, WO 91-EP1348 910718; ES  
 2033572 A1 ES 91-1060 910426; TW 200436 A TW 91-103430 910501; DE  
 4143441 A1 Div ex DE 91-4113786 910426, DE 91-4143441 910426; HU  
 63109 T HU 91-1458 910430; PT 97521 A PT 91-97521 910430; HU 63301 T  
 WO 91-EP1348 910718, HU 92-880 910718; NL 9300911 A Div ex NL 91-706  
 910423, NL 93-911 930527; GB 2244258 B GB 91-9503 910502; PT 98351 A  
 PT 91-98351 910717; ES 2033572 B1 ES 91-1060 910426; DE 4143503 A1  
 Div ex DE 91-4113786 910426, DE 91-4143503 910426; DE 4143505 A1 Div  
 ex DE 91-4143441 910426, DE 91-4143505 910426; NZ 239001 A NZ  
 91-239001 910718; AU 651981 B AU 91-81052 910718; IL 97977 A IL  
 91-97977 910428; CA 2066424 C CA 91-2066424 910718; CH 684468 A5 CH  
 91-1302 910501; DE 4143441 C2 Div ex DE 91-4113786 910426, DE  
 91-4143441 910426; AU 653519 B AU 91-76114 910429; US 5358103 A Cont  
 of US 90-554615 900718, Cont of US 93-150938 931112, US 94-205924  
 940303; DE 4113786 C2 DE 91-4113786 910426; CA 2041313 C CA  
 91-2041313 910426; ES 2065293 A1 Div ex ES 91-1060 910426, ES  
 93-1852 930824; ES 2065293 B1 ES 93-1852 930824; IE 64670 B IE  
 91-1248 910412; IT 1250919 B IT 91-MI1197 910502; JP 08022802 B2 JP  
 91-100176 910501; JP 2518759 B2 JP 91-511866 910718, WO 91-EP1348  
 910718; EP 493553 B1 EP 91-912408 910718, WO 91-EP1348 910718; RO  
 110895 B1 WO 91-EP1348 910718, RO 92-200356 910718; RU 2066666 C1 SU  
 91-4895266 910430; RU 2067547 C1 SU 91-5011669 910718, WO 91-EP1348  
 910718; DE 69125261 E DE 91-625261 910718, EP 91-912408 910718, WO  
 91-EP1348 910718; US 5624034 A CIP of US 90-554615 900718, CIP of US  
 91-680321 910401, CIP of US 91-679290 910402, Cont of US 91-713681  
 910611, CIP of US 93-41521 930331, Div ex US 93-147602 931104, US  
 95-447079 950522; ES 2099163 T3 EP 91-912408 910718; HU 212035 B WO  
 91-EP1348 910718, HU 92-880 910718; NL 192873 B NL 91-706 910423; CZ  
 283327 B6 CS 91-2215 910717

FDT AU 9181052 A Based on WO 9201374; EP 493553 A1 Based on WO 9201374;  
 BR 9105833 A Based on WO 9201374; JP 05501719 W Based on WO 9201374;  
 DE 4143441 A1 Div ex DE 4113786; HU 63301 T Based on WO 9201374; DE  
 4143503 A1 Div ex DE 4113786; DE 4143505 A1 Div ex DE 4143441; AU  
 651981 B Previous Publ. AU 9181052, Based on WO 9201374; DE 4143441  
 C2 Div ex DE 4113786, Div in DE 4143505; AU 653519 B Previous Publ.  
 AU 9176114; US 5358103 A Cont of US 5080226; DE 4113786 C2 Div in DE  
 4143441, Div in DE 4143503; JP 08022802 B2 Based on JP 04225903; JP  
 2518759 B2 Previous Publ. JP 05501719, Based on WO 9201374; EP  
 493553 B1 Based on WO 9201374; RO 110895 B1 Based on WO 9201374; DE  
 69125261 E Based on EP 493553, Based on WO 9201374; US 5624034 A CIP  
 of US 5080226, CIP of US 5280835, Div ex US 5429242; ES 2099163 T3  
 Based on EP 493553; HU 212035 B Previous Publ. HU 63301, Based on WO  
 9201374; CZ 283327 B6 Previous Publ. CS 9102215

PRAI US 91-680321 910404; GB 90-9898 900502; US 90-554615 900718;  
 US 93-150938 931112; US 94-205924 940303

AN 91-333840 [46] WPIDS

CR 92-064634 [08]; 92-064635 [08]; 92-064636 [08]; 92-064637 [08];  
 92-298964 [36]; 92-366118 [44]; 92-417484 [51]; 93-010544 [02];  
 93-028785 [04]; 93-152332 [18]; 93-319747 [40]; 93-344603 [43];  
 94-208327 [25]; 94-224864 [27]; 94-293133 [36]; 95-240003 [31];  
 95-253848 [32]; 98-017009 [05]; 98-031172 [32]

AB DE 4113786 A UPAB: 980126

A foil container for storing liq. chemicals and/or chemicals dissolved or dispersed in a liq. or a gel is made of a laminate foil. The container is esp. suitable for storing dangerous chemicals.

The laminate foil is pref. water-soluble or can be dispersed in water. The laminate foil is of thickness 10-250 microns (esp. 15-80 microns). The capacity of the bag is 0.2-12 l (esp. 0.45-6 l). The laminate foil is of metal, esp. Al. The pack contains a portion for cutting or tearing or is sealed with a welded portion of a tube which after opening can be resealed. The pack also has an external supporting container fitting the form end vol. of the foil container. This outer container is of paperboard, cardboard, metal and/or **plastic**. At least one layer of the laminate foil is of polyethyleneoxide, methyl cellulose or partially or completely (esp. 40-99%), alcoholysed or hydrolysed polyvinyl ethanoate.

@(6pp Dwg.No.0/0)

ABEQ US 5080226 A UPAB: 930928  
 Containerisation system for agricultural chemicals (I) (esp. pesticides and plant protection agents) comprises a water-soluble or water-dispersible bag contg. (I) as a gel which does not flow or leak persistently from the bag even if pinholes develop.

Bags are pref. made of **polymeric** water-soluble film of 10-500 (20-100) microns thickness. Polyethylene oxide, methylcellulose, polyvinyl alcohol or 80-99% alcoholised or hydrolysed PVA films are suitable.

Pref. the bag has a capacity of 01.1-12 (0.045-6) litres, and the gel has a viscosity of 500-50000 centipoises.

**ADVANTAGE** - Safe method of transport of (I), which can easily be dispersed when the bag is immersed in water.

ABEQ JP05501719 W UPAB: 931112  
 Foil container for storing liq. chemicals and/or chemicals dissolved or dispersed in a liq. or a gel is made of a laminate foil.

Laminate foil is pref. water-soluble or can be dispersed in water, and is of thickness 10-250 microns (15-80 microns). Capacity of the bag is 0.2-12.1 (0.45-6.1). Laminate foil is of metal, esp.

Al. Pack contains a portion for cutting or tearing or is sealed with a welded portion of a tube which after opening can be resealed. Pack also has an external supporting container fitting the form end vol. of the foil container. This outer container is of paperboard, cardboard, metal and/or **plastic**. At least one layer of the laminate foil is of polyethylene oxide, methyl cellulose or partially or completely (40-99%) alcoholsed or hydrolysed polyvinyl ethanoate.

USE/ADVANTAGE - Lamine foil reduces the risk of the chemicals leaking out through holes or pores in the foil and increases the safety of handling and using dangerous chemicals (esp. agrochemicals e.g. pesticides and herbicides) and reduces the possibility of environmental pollution due to accidents.

ABEQ DE 4143441 A UPAB: 931119

Container is made of a laminate foil.

The laminate foil is pref. water-soluble or can be dispersed in water and is of thickness 10-250 microns (esp. 15-80 microns). The capacity of the bag is 0.2-12 l (esp. 0.45-6 l). The laminate foil is of metal, esp. Al. The pack contains a portion for cutting or tearing or is sealed with a welded portion of a tube which after opening can be resealed. The pack also has an external supporting container fitting the form end vol. of the foil container. This outer container is of paperboard, cardboard, metal and/or **plastic**. At least one layer of the laminate foil is of polyethyleneoxide, methyl cellulose or partially or completely (esp. 40-99%), alcoholsed or hydrolysed polyvinyl ethanoate.

USE/ADVANTAGE - Used for storing dangerous liq. or gel form chemicals. Container minimises risk of chemicals leaking through pores.

ABEQ NL 9300911 A UPAB: 931207

A foil container for storing liq. chemicals and/or chemicals dissolved or dispersed in a liq. or a gel is made of a laminate foil. The container is esp. suitable for storing dangerous chemicals.

The laminate foil is pref. water-soluble or can be dispersed in water. The laminate foil is of thickness 10-250 (esp. 15-80) microns. The capacity of the bag is 0.2-12 (esp. 0.45-6)l. The laminate foil is of metal, esp. Al. The pack contains a portion for cutting or tearing or is sealed with a welded portion of a tube which after opening can be resealed. The pack also has an external supporting container fitting the form end vol. of the foil container. This outer container is of paperboard, cardboard, metal and/or **plastic**. At least one layer of the laminate foil is of polyethyleneoxide, methyl cellulose or partially or completely (esp. 40-99%), alcoholsed or hydrolysed polyvinyl ethanoate.

Dwg.0/0

ABEQ GB 2244258 B UPAB: 931220

A package which comprises a hazardous chemical dissolved or dispersed in a liquid or gel contained in a water-soluble or water-dispersible laminated film.

Dwg.0/0

ABEQ US 5280835 A UPAB: 940315

A bag consisting of several laminated water-soluble or water-dispersible layers encloses an agrochemical (I) dispersed in a liq. or gel.

The laminated film (of thickness 10-250 (15-80) microns) contains 0.2-12.0 (0.45-6.0) l. of (I) which is pref. a pesticide, plant protection agent or plant growth regulator.

ADVANTAGE - The system may be safely handled and reduces risk of pollution and environmental damage.

Dwg.0/0

ABEQ DE 4143441 C UPAB: 941128

Packing for chemicals (I) comprises at least two shells. The inner shell is made of a **plastic** sheet of welded, water-soluble material, and holds (I) which is for chemicals not used in agriculture, (sic) esp. dangerous chemicals, in concentrated form dissolved or dispersed in a liq. or viscous gel. The second shell also comprises a **plastic** sheet of welded, water-soluble material. It is laminated to the first sheet and contains **plasticiser** in an amt. which makes the outer shell more resistant to damage than the inner shell.

Pref. sheet(s) are made of polyethylene oxide, methyl cellulose or (partially) hydrolysed polyvinyl acetate.

ADVANTAGE - The package has fewer pores that the contents can leak through. In an example, the contents were a herbicide mixt. in aromatic hydrocarbon soln.

Dwg.0/0

ABEQ US 5358103 A UPAB: 941212

A containerisation system for holding and securing hazardous chemical cpds. (I) comprises a water-soluble or dispersible bag completely enclosing a gel of (I) (formulated to be water-sol. or water-dispersible and having a viscosity of 1000-3000 centipoise.

Cpd (I) is e.g. an agrochemical such as a pesticide (herbicide, fungicide, nematocide, insecticide, or plant protection agent (e.g. plant growth regulator nutrient)).

Dwg.0/0

ABEQ DE 4113786 C UPAB: 941223

Packing for agrochemicals comprises an inner shell of cold water-soluble heat-sealed **plastic** sheet, and an outer shell which is also a cold water-soluble welded heat-sealed **plastic** sheet which is formed into a flexible bag before packing, and secured to the inner shell to form a laminate. The outer layer of the laminate has a **plasticiser** content such that the outer layer is more resistant to physical damage than the inner layer.

Pref. the laminate has at least 3 layers, one or more of which is made of 40-99% alcoholised or hydrolysed polyvinyl acetate.

USE/ADVANTAGE - Used for packing agrochemicals, e.g. herbicides or fungicides, in concentrate form, dissolved or dispersed in liq. and/or viscous gel. Easy to produce, and has increased resistance to formation of pinholes, frost, and handling.

Dwg.0/0

ABEQ US 5429242 A UPAB: 950818

The package comprises a bag containing a hazardous chemical, the hazardous chemical being dissolved or dispersed in a liquid or gel.

The bag is made of a film comprised of at least two laminated water soluble water dispersible layers, the laminated layers completely enclosing the hazardous chemical contained in the bag.

ADVANTAGE - Is convenient for end users e.g. farmers to handle. Reduces the risk of pollution and environmental damage.

Dwg.0/0

ABEQ EP 493553 B UPAB: 970417

A containerisation system for holding and securing agricultural chemical compounds which comprises a water-soluble or water-dispersible bag having a capacity from 0.2 to 12 litres, filled to at least 60% of capacity, but not filled to complete

capacity, with an essentially organic water-dispersible gel, wherein the gel comprises an agricultural chemical compound and has a viscosity of at least 500 centipoises and the gel can be divided by cutting and the cut parts are able to merge by simple juxtaposition and the gel is such as to avoid leakage through pinholes which may develop in the bag.

Dwg.0/0

=> d 1108 bib abs tot

L108 ANSWER 1 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 97-347333 [32] WPIDS

DNC C97-111797

TI Delayed action type multilayer coating agrochemical particulate - comprises particulate containing water expanding substance, coating of agrochemical and thermoplastic resin and coating of olefin **polymer**.

DC A17 A97 C07

PA (CHCC) CHISSO CORP

CYC 1

PI JP 09143005 A 970603 (9732)\* 10 pp <--

ADT JP 09143005 A JP 95-326431 951121

PRAI JP 95-326431 951121

AN 97-347333 [32] WPIDS

AB JP09143005 A UPAB: 970806

Delayed action type multilayer coating agrochemical particulate comprises (1) a particulate containing a water expanding substance, (2) a composition made of an agriculturally active component and a thermoplastic resin and coating the surface of the particulate, and (3) a coating material made of an olefin **polymer** or a **copolymer**, covering the surface of (2).

USE - The particulate is useful as a herbicide or an insecticide.

ADVANTAGE - The release of the agrochemical can be controlled for a specific period, and the releasing speed (after the releasing started) can be also controlled. The agrochemical has activity for a longer period. Agrochemicals can be applied at the same time when the rice seedlings are transplanted.

In an example, 50 pts. wt. bentonite and 38 pts. wt. clay (as water expanding substances) were mixed with 12 pts. wt. 2-benzothiazole- 2-yloxy-N-methyl acetoanilide (87.3 %) homogeneously and kneaded with water by a kneader. The mixture was subjected to screw extrusion type granulator to provide granules which were dried by a hot air circulating dryer at 100 deg. C and agricultural granules (particle size of 0.8-1.4 mm) were obtained. Polyethylene wax was mixed with 2-benzothiazole-2-yl oxy-N-methyl acetoanilide (wt. ratio of 2:8) to provide 500 g of the mixture. Then it was used to coat 10 kg of the produced granulates to provide 10.5 kg coated granulates. Then 10 kg of the coated granulates were further coated with a low density polyethylene (20 pts. wt.), talc (80 pts. wt.), and hexaoxyethylene nonylphenyl ether (0.5 pts. wt.) at the coating ratio of 20 pts. wt. to provide the delayed action type multilayer coating agrochemical particulate.

Dwg.0/0

L108 ANSWER 2 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 97-328432 [30] WPIDS

DNC C97-105538  
 TI Release controlled solid composition of agrochemicals - comprises inner core of active component excluding herbicide, coated or adhered with same component.

DC A97 C07  
 PA (HOKK) HOKKO CHEM IND CO LTD

CYC 1  
 PI JP 09132503 A 970520 (9730)\* 12 pp <--

ADT JP 09132503 A JP 95-313749 951108

PRAI JP 95-313749 951108

AN 97-328432 [30] WPIDS

AB JP09132503 A UPAB: 970723

Release controlled solid composition or agrochemical(s) comprises inner core of an agriculturally active component excluding herbicide, a solid carrier and a slow releasing agent, coated or adhered with the same agriculturally active component excluding herbicides, optionally with a solid carrier.

Production of the release controlled solid composition comprise mixing or spraying on agriculturally active component excluding herbicide, a solid carrier and at least 1 slow releasing agent, followed by coating or adhering with the same agriculturally active component excluding herbicide, optionally with a solid carrier. The process is preferably carried out to give the composition of inner core and outer layer at wt. ratios of 1:9-9:1, preferably 1:3-3:1. The process comprises e.g. spray coating film forming material on the surface of inner cores during turnover granulation.

**ADVANTAGE** - Long lasting insecticides and antimicrobial agents prevent excess cumulation of effective ingredients in plant bodies.

In an example, a mixt. of probenazole bulk (8.0 pts.), sodium laurylsulphate (0.2 pt.) and clay (87.8 pts.) was turned over to give a powder mixture. The mixture was granulated with polyvinyl alcohol (2.0 pts.) in water (10 pts.) and dried. Then, an emulsion of containing vinyl acetate-ethylene-acryl **copolymer** (2.0 pts.) was sprayed and dried to give release controlled granules (100 pts.).

Dwg.0/0

L108 ANSWER 3 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 97-131282 [12] WPIDS

DNC C97-042350

TI Sprayable aq. compsn. e.g. for controlled-release pesticide - comprises discrete, solid particles of active ingredient in salt-sensitive **polymeric** binder and aq. carrier.

DC A11 A14 A97 C03 C07

IN BRANLY, K; GAYTAN, J H; LEW, C W

PA (MICR-N) MICRO FLO CO

CYC 1

PI US 5599767 A 970204 (9712)\* 7 pp <--

ADT US 5599767 A US 94-250790 940527

PRAI US 94-250790 940527

AN 97-131282 [12] WPIDS

AB US 5599767 A UPAB: 970320

A sprayable aq. compsn. comprises: (i) discrete, free-flowing solid particles comprising a salt-sensitive, **polymeric** binder that is water-soluble except when in chemical contact with a water-soluble hardening salt and an agriculturally effective active ingredient encapsulated within the binder; and (ii) an aq. carrier medium contg. the water-soluble hardening salt in an amt. sufficient

to maintain the **polymer** in a solid, hydrophobic form. Also claimed is a process for making encapsulated active ingredients, comprising: (1) mixing (a) an agriculturally active ingredient with (b) a salt-sensitive, **polymeric** binder as above; (2) forming discrete, free-flowing solid particles contg. the active ingredient and the binder; and (3) dispersing the particles in a spray tank contg. water and the water-soluble hardening salt in amt. to maintain the **polymer** in solid, hydrophobic form. Also claimed is a method for applying an agriculturally effective active ingredient comprising: distributing in the area to be treated e.g. to soil or foliage and aq. compsn. comprising (i) as above and a water-soluble hardening salt, where a quantity of the salt adheres to the outer surface of the binder and maintains the **polymer** in a solid, hydrophobic form until the salt is removed.

USE - The circumstances and timing of the release of the encapsulated active ingredient can be controlled by the presence of the hardening salt-release is delayed until sufficient moisture is present to activate a release mechanism within the formulation.

Dwg.0/0

L108 ANSWER 4 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 97-107535 [10] WPIDS  
 CR 93-052821 [06]; 94-248760 [30]; 94-333151 [41]; 95-169975 [22]  
 DNC C97-034300  
 TI Particulate, broad-spectrum antimicrobial compsn. - comprising barium sulphate or zinc oxide with coatings of silver, silica and alumina, esp. used in shaped **polymer** matrices, e.g. fibres.  
 DC A23 A60 C03 D22 E37 F01 F06 G02 L02  
 IN JACOBSON, H W; SCHOLLA, M H; WIGFALL, A W  
 PA (DUPO) DU PONT DE NEMOURS & CO E I  
 CYC 1  
 PI US 5595750 A 970121 (9710)\* 16 pp <--  
 ADT US 5595750 A Cont of US 91-742963 910809, Cont of US 93-6022 930115,  
 US 94-361003 941221  
 FDT US 5595750 A Cont of US 5180585  
 PRAI US 91-742963 910809; US 93-6022 930115; US 94-361003 941221  
 AN 97-107535 [10] WPIDS  
 CR 93-052821 [06]; 94-248760 [30]; 94-333151 [41]; 95-169975 [22]  
 AB US 5595750 A UPAB: 970813

An antimicrobial compsn. (A) consists of barium sulphate or zinc oxide particles of average dia. 0.001-100 μm, having successive coatings of (i) 0.05-3 wt.% (based on the particles) of silver, (ii) 0.10-6 wt.% silica and (iii) sufficient hydrous alumina to give the coated particles isoelectric point 5.5-9.5.

If the particles are BaSO<sub>4</sub>, then coating (i) opt. also includes 0.05-3 wt.% cupric oxide or zinc silicate.

Also claimed are antimicrobial shaped **polymer** articles, consisting of a carrier matrix of at least one **polymer** and 0.1-60 (pref. 1-15) wt.% (based on the shaped article) of (A).

Pref. the **polymeric** carrier matrix is a fibre of one or more of nylon-6,6, nylon-6,12, spandex and spandex **polymer**.

USE - (A) have broad-spectrum antimicrobial activity (e.g. against bacteria, fungi, viruses, algae, protozoa, viroids and prions), and are useful as antibacterials, antifungals and disinfectants.

They may be used in a wide variety of products, e.g. paints, coatings, caulks, grouts, mortars, cements, masonry products and esp. shaped **polymeric** articles (e.g. films, membranes, containers, pipes, fibres and monofilaments, e.g. for brushes). Articles and devices in which (A) may be incorporated include medical devices (e.g. wound closure sutures), melt blown fibres for sterile filters, dental devices, food wrap, clothing (e.g. gowns and masks), wound dressings, medical implants, floor coverings and coatings.

(A) may replace all or part of the fillers and/or pigments normally used in the products, and in fibres may have a delustering effect.

**ADVANTAGE** - (A) have durable antimicrobial action, due to their low water solubility. They are readily dispersed in **polymer** matrices and do not harmfully affect the properties (e.g. colour) of the matrices.

Dwg.0/0

L108 ANSWER 5 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 96-426771 [43] WPIDS  
 DNC C96-134469  
 TI New biocidal material, inhibiting bacterial growth in aq. media - comprises organic biocide immobilised, by hydrophobic exclusion, on support e.g. hydrophobic **polymer**, esp. in **polymeric** bead form, for photo-processing.  
 DC A97 D22 E19 G06  
 IN BATTs, G N; LEEMING, K; MOORE, C P  
 PA (EAST) EASTMAN KODAK CO; (EAST) KODAK LTD  
 CYC 10  
 PI EP 733304 A2 960925 (9643)\* EN 18 pp <--  
 R: DE DK FR GB NL SE  
 AU 9647937 A 960919 (9645)  
 NO 9600945 A 960909 (9645)  
 JP 08277202 A 961022 (9701) 14 pp  
 CA 2169884 A 960909 (9702)  
 ADT EP 733304 A2 EP 96-200601 960305; AU 9647937 A AU 96-47937 960307;  
 NO 9600945 A NO 96-945 960307; JP 08277202 A JP 96-51466 960308; CA  
 2169884 A CA 96-2169884 960220  
 PRAI GB 95-4630 950308  
 AN 96-426771 [43] WPIDS  
 AB EP 733304 A UPAB: 961025  
 A new biocidal material comprises an organic biocide immobilised on a support. The support has a hydrophobic surface and the biocide has a log P value of at least 1.5 and is immobilised on the hydrophobic surface by hydrophobic exclusion.

Pref. the support is a hydrophobic **polymer**, esp. in the form of **polymer** beads.

**USE** - The material is used to inhibit bacterial growth in an aq. medium, such as the wash water of a photoprocessing system (claimed). Material is used to prevent biofouling in photoprocessing systems, partic. those in which low flow-rate washes and water recycling are used.

**ADVANTAGE** - The material removes need for conventional dosing of biocides in soln., either directly or by gradual release. The biocide is used only on demand when bacteria are present. The direct exposure of operators to toxic biocides is minimised.

Dwg.0/7

L108 ANSWER 6 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 96-426753 [43] WPIDS  
 DNC C96-134455  
 TI Mouldable antimicrobial **polymer** compsn with good weatherability - utilises thiabendazole in combination with aluminosilicate coated silica gel contg e.g. silver ions and a **polymer**.  
 DC A60 D22 E13  
 IN HAGIWARA, K; HAGIWARA, Z  
 PA (HAGI-N) HAGIWARA RES CORP; (NIEL-N) JAPAN ELECTRONIC MATERIALS CO;  
 (HAGI-N) HAGIWARA GIKEN KK; (NIDS) NIPPON DENSHI ZAIRYO KK  
 CYC 10  
 PI EP 732052 A2 960918 (9643)\* EN 12 pp  
     R: BE DE FR GB IT NL  
     AU 9648035 A 960926 (9646)  
     JP 08253690 A 961001 (9649) 13 pp  
     CA 2171379 A 960915 (9703)  
     EP 732052 A3 970319 (9722)  
     US 5698212 A 971216 (9805) 8 pp <--  
 ADT EP 732052 A2 EP 96-301718 960313; AU 9648035 A AU 96-48035 960312;  
     JP 08253690 A JP 95-80881 950314; CA 2171379 A CA 96-2171379 960308;  
     EP 732052 A3 EP 96-301718 960313; US 5698212 A US 96-614251 960312  
 PRAI JP 95-80881 950314  
 AN 96-426753 [43] WPIDS  
 AB EP 732052 A UPAB: 961025  
 Antimicrobial **polymer** compsn. (I) consists of a **polymer**, thiabendazole, and an antimicrobial compsn. comprising an aluminosilicate coating. contg. antimicrobial metal ions on the surface of silica gel.  
 ADVANTAGE - (I) have excellent biocidal activity against fungi esp. mildew, have excellent weatherability, and are less prone to discolouration on moulding or prolonged exposure to light.  
 Dwg.0/0  
 ABEQ US 5698212 A UPAB: 980202  
 Antimicrobial **polymer** compsn. (I) consists of a **polymer**, thiabendazole, and an antimicrobial compsn. comprising an aluminosilicate coating. contg. antimicrobial metal ions on the surface of silica gel.  
 ADVANTAGE - (I) have excellent biocidal activity against fungi esp. mildew, have excellent weatherability, and are less prone to discolouration on moulding or prolonged exposure to light.  
 Dwg.0/0

L108 ANSWER 7 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 96-040583 [05] WPIDS  
 DNC C96-013719  
 TI Encapsulation of agrochemicals to give water-dispersible, water-soluble particles - by forming a homogeneous mixt. of agrochemical and a water-free, molten, film forming **polymer** binder into particles..  
 DC A97 C07  
 IN BRANLY, K; GAYTAN, J H; LEW, C W; GAYTAN, J  
 PA (MICR-N) MICRO FLO CO; (MICR-N) MICRO FLO CORP  
 CYC 4  
 PI AU 9517824 A 951207 (9605)\* 21 pp <--  
     CA 2148342 A 951128 (9613) <--  
     BR 9502540 A 960227 (9615)

US 5599583 A 970204 (9711) 7 pp  
 US 5643351 A 970701 (9732) 6 pp  
 AU 683354 B 971106 (9802) <--  
 ADT AU 9517824 A AU 95-17824 950503; CA 2148342 A CA 95-2148342 950501;  
 BR 9502540 A BR 95-2540 950525; US 5599583 A US 94-250766 940527; US  
 5643351 A Div ex US 94-250766 940527, US 95-470347 950606; AU 683354  
 B AU 95-17824 950503  
 FDT US 5643351 A Div ex US 5599583; AU 683354 B Previous Publ. AU  
 9517824  
 PRAI US 94-250766 940527; US 95-470347 950606  
 AN 96-040583 [05] WPIDS  
 AB AU 9517824 A UPAB: 960205  
 The encapsulation of agriculturally effective active ingredients  
 comprises mixing until homogeneous (A) an agriculturally effective  
 active ingredient with (B) a water-free, molten, film-forming  
**polymer** binder that has a viscosity of less than 1000 cp and  
 which is less than 100% water soluble, at least 20% soluble in  
 alcohol and forms a non-tacky solid at 20deg.C. The homogeneous  
 mixt. is then formed into particles.  
 USE - The method can be used to encapsulate agricultural active  
 ingredients, such as fungicides, insecticides and herbicides, esp.  
 those that are water insoluble.  
 ADVANTAGE - The encapsulation process is carried out without  
 using water and is thus suitable for use with active ingredients  
 that are sensitive to hydrolysis or degradation in the presence of  
 moisture. The relatively low temps. needed to melt the binder and to  
 disperse the active ingredient in the binder mean that active  
 ingredients sensitive to high temps. (such as those found in spray  
 drying processes) can be encapsulated. Water insoluble active  
 ingredients that have been distributed only through the use of  
 non-aqueous solvents can be encapsulated, to form water-dispersible,  
 water-soluble particles. The use of aromatic and other non-aq.  
 solvents is avoided. The dry, solid particles of the invention  
 contain high levels of active ingredients. Also encapsulation  
 improves handability of potentially harmful substances e.g. the eye  
 irritation due to captan is reduced if it is encapsulated.  
 Dwg.0/0  
 ABEQ US 5599583 A UPAB: 970313  
 A process for encapsulating an agriculturally effective active  
 ingredient by a process comprising the steps:  
 mixing until homogeneous (a) 50-90 wt % of an agriculturally  
 effective active ingredient with (b) a water-free, molten,  
 film-forming **polymer** binder that exhibits a viscosity of  
 less than about 1000 cp, wherein said **polymer** binder is  
 less than 100% water soluble, at least 20% soluble in alcohol, and  
 forms a non-tacky solid at 20 deg. C.; and  
 forming said homogeneous mixture into particles, wherein said  
 agriculturally effective active ingredient is chemically compatible  
 with said film forming **polymer** binder.  
 Dwg.0/0  
 ABEQ US 5643351 A UPAB: 970806  
 An agriculturally useful composition comprising: (a) an  
 agriculturally effective active ingredient homogeneously distributed  
 throughout and encapsulated by (b) a water-free, molten,  
 film-forming **polymer** binder that is about 20-90% water  
 soluble at 20 deg. C, at least 20% soluble in methanol, and which  
 forms a non-tacky solid at 20 deg. C where the composition is made  
 by a process comprising: mixing until homogeneous the agriculturally

effective active ingredient with the water-free, molten, film-forming **polymer** binder, where the molten binder exhibits a viscosity of less than about 1000 cp; cooling the homogeneous mixture to a temperature above the solidification temperature of the homogeneous mixture; and forming the homogeneous mixture into particles by spraying the cooled mixture into a congealing zone at a temperature below the melting point of the **polymer** binder.

Dwg.0/0

L108 ANSWER 8 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 95-381878 [49] WPIDS  
 CR 90-060922 [09]; 90-060923 [09]; 90-101180 [14]; 90-225978 [30];  
 92-415754 [50]; 95-000930 [01]  
 DNC C95-165093  
 TI Particulate compsns. which allow protection and controlled release of active agent - comprising particles with an anhydrous core comprising a solid matrix **polymer** and an outer coacervated **polymer** shell..  
 DC A97 C07 D16 D25  
 IN CHAMBERLAIN, P; LANGLEY, J G; MISTRY, K K; SYMES, K C  
 PA (ALCG) ALLIED COLLOIDS LTD  
 CYC 1  
 PI US 5460817 A 951024 (9549)\* EN 14 pp <--  
 ADT US 5460817 A CIP of US 89-398083 890824, CIP of US 90-467668 900119,  
 CIP of US 91-734545 910723, CIP of US 91-749695 910826, US 93-30830  
 930312  
 FDT US 5460817 A CIP of US 5194263, CIP of US 5324445  
 PRAI GB 91-16682 910802; GB 88-20061 880824; GB 88-20062 880824;  
 GB 89-1182 890119; GB 89-1254 890120; GB 91-10408 910514  
 AN 95-381878 [49] WPIDS  
 CR 90-060922 [09]; 90-060923 [09]; 90-101180 [14]; 90-225978 [30];  
 92-415754 [50]; 95-000930 [01]  
 AB US 5460817 A UPAB: 951211  
 Particulate compsn. comprises particles having an anhydrous core comprising (a) a solid matrix **polymer** throughout which an active ingredient is distributed, and (b) an outer protective coacervated **polymer** shell.

USE - The compsns. allow protection of the active agent, which is, e.g., an agrochemical or enzyme, from its environment. They may be capable of controlled release of active agent, e.g., where the active agent is toxic at high concns. They also allow the active agent to retain its activity prior to use.

ADVANTAGE - No further details.

Dwg.0/0

L108 ANSWER 9 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 95-379920 [49] WPIDS  
 DNC C95-163903  
 TI Sustained release granulated agricultural chemical compsn. - comprises granules contg. liq. or solid agricultural chemical coated with **polymer**.  
 DC A97 C07  
 PA (NICA) NIPPON CARBIDE KOGYO KK  
 CYC 1  
 PI JP 07258001 A 951009 (9549)\* 6 pp <--  
 ADT JP 07258001 A JP 94-70161 940316  
 PRAI JP 94-70161 940316

AN 95-379920 [49] WPIDS

AB JP07258001 A UPAB: 951211

Compsn. contains granules contg. a liq. or a pulverized solid agricultural chemical component coated with a **polymer** which is a **copolymer** contg. the following (a)-(c) as repeating structural units, or a polyvalent metal salt thereof; (a) 80-99.9 wt.% of an ethylenic monomer of formula CH<sub>2</sub>=CR<sub>1</sub>-Y, (b) 0.1-20 wt.% of an ethylenic monomer contg. carboxyl group in the molecule and (c) 0-30 wt.% of a comonomer except for (b); where R<sub>1</sub> is H or methyl, Y is H, alkyl or 1-8C, -COOR<sub>2</sub>, -OCOR<sub>3</sub>, aryl or CN, R<sub>2</sub> is alkyl of 1-12C, R<sub>3</sub> is H or alkyl of 1-12C.

The polyvalent metal is pref. calcium, magnesium, zinc, copper or aluminium.

**ADVANTAGE** - The compsn. can maintain its effect for a longer time than the conventional product. The compsn. is harmless, it does not affect humans nor environment. By selecting the production conditions, the release of the agricultural chemical component can be freely controlled.

**EXAMPLE** - 5 wt. parts. of 2,3-dihydro-2,2-dimethyl-7-benzofuranyl -N-[N-(2-ethoxycarbonylether)-N-i-propylaminosulphinyl]-N-methylcarbamate] and 95 wt. parts of clay of 48-75 mesh were mixed for 10 mins. A **polymer** aq. soln. produced as follows as sprayed (in an amount of 5 wt. parts in terms of solid component with respect to 100 wt. parts of the total insecticide and the clay) and mixed for 10 mins. and dried in hot air drier at 100 deg.C for 15 mins., to give the sustained release compsn. **Polymer** production: 730 wt. parts of deionized water was put in a reaction vessel and heated at 80 deg.C under nitrogen flow. 285 wt. parts of vinyl acetate and 15 wt. parts of crotonic acid were mixed and homogeneously dissolved in another vessel to provide a monomer mixt. The monomer mixt. and 60 wt. parts of 10 wt.% t-butyl hydroperoxide were continuously added to water for 3 hours and 25 wt.% ammonia aq. soln. and 25 wt.% zinc acetate aq. soln. were added then pH was controlled to 8.5-9.5 to provide a **polymer** aq. soln.

Dwg.0/0

L108 ANSWER 10 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 95-246142 [32] WPIDS

DNC C95-112925

TI Slow release compsn. contg. biodegradable starch-**polymer** matrices - have improved environmental impact.

DC A97 C07

IN SOUTHARD, M Z

PA (UNIV) UNIV KANSAS CENT RES INC; (RUTT-I) RUTTER R E

CYC 20

PI WO 9517815 A1 950706 (9532)\* EN 44 pp <--

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU CA JP US

AU 9514420 A 950717 (9544)

US 5565407 A 961015 (9647) 19 pp

ADT WO 9517815 A1 WO 94-US14728 941221; AU 9514420 A AU 95-14420 941221; US 5565407 A CIP of US 93-173097 931227, US 94-359008 941219

FDT AU 9514420 A Based on WO 9517815

PRAI US 94-359008 941219; US 93-173097 931227

AN 95-246142 [32] WPIDS

AB WO 9517815 A UPAB: 970122

A slow release compsn. is new: The compsn. comprises the active ingredient interspersed within a release-extending admixture contg.

starch and a synthetic **polymer**. The starch is less than 10% gelatinised and the **polymer** and starch under less than 10% crosslinking in the admixture.

**ADVANTAGE** - The compsn. provides an improved slow-release formulation which has reduced adverse environmental impact.

Dwg.0/19

ABEQ US 5446277 A UPAB: 951011

A flash tube intensity monitoring system consists of a human eye spectral response photodiode producing analog signals which are directly proportional to tube's flashes, an analog signal to digital time function converter, and a time function fault indicator.

The system can be used for monitoring anti-collision lights on an aircraft or for an airport approach array. In the latter case it comprises a light pickup bezel (75) to collect a portion of the light transmitted by a lamp (73), a spectral response photodiode, a transceiver line (77) and a monitor module (79) containing a microcontroller.

**ADVANTAGE** - Provides continuous monitoring of flash tubes and continuous illumination sources to ensure that they meet required standards.

Dwg.6/7

ABEQ US 5565407 A UPAB: 961124

Slow-release composition comprising a quantity of active ingredient interspersed within a release-extending admixture for slowing release of ingredient from admixture. Admixture consists of a matrix comprising respective quantities of native, undenatured starch and synthetic **polymer** selected from polycaprolactone and polyethylene glycol, and combinations thereof. **Polymer** coats at least a portion of the surface area of starch with active ingredient interspersed within matrix.

Dwg.0/20

L108 ANSWER 11 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 95-215105 [28] WPIDS

DNC C95-099465

TI Water emulsifiable granules - contg. pyrethrinoid and non pyrethrinoid insecticides.

DC A97 C03

IN FAVALORO, J; HENRIET, M; SCHOENI, J; FAVOLORO, J

PA (ROUS) ROUSSEL-UCLAF

CYC 23

PI WO 9515081 A1 950608 (9528)\* FR 27 pp

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU CN HU JP US

FR 2713045 A1 950609 (9529) <--

AU 9511932 A 950619 (9540)

ZA 9409419 A 960131 (9610) 20 pp

EP 731635 A1 960918 (9642) FR

R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

HU 74368 T 961230 (9714)

ADT WO 9515081 A1 WO 94-FR1407 941202; FR 2713045 A1 FR 93-14504 931203;

AU 9511932 A AU 95-11932 941202; ZA 9409419 A ZA 94-9419 941128; EP 731635 A1 WO 94-FR1407 941202, EP 95-902825 941202; HU 74368 T WO 94-FR1407 941202, HU 96-1494 941202

FDT AU 9511932 A Based on WO 9515081; EP 731635 A1 Based on WO 9515081; HU 74368 T Based on WO 9515081

PRAI FR 93-14504 931203

AN 95-215105 [28] WPIDS

AB WO 9515081 A UPAB: 950721

Water emulsifiable granules contain, by weight: 0.1-10% of pyrethrinoids, 5-50% non-pyrethrinoid insecticide; 5-70% aromatic solvent; 10-70% one or more water-soluble **polymers** that adsorb an organic solution of pyrethrinoid.

**ADVANTAGE** - The granules are easy to prepare, easy to use, and have good stability and good pesticidal activity.

Dwg.0/0

L108 ANSWER 12 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 95-169975 [22] WPIDS

CR 93-052821 [06]; 94-248760 [30]; 97-107535 [10]

DNC C95-078988

TI Antimicrobial compsn. for shaped **polymer** articles - comprises inorganic particles coated with silver, zinc, zinc oxide, zinc silicate, copper, etc. and dispersion aid.

DC A23 A60 D22 E17 E32 F01

IN JACOBSON, H W; SCHOLLA, M H; WIGFALL, A W; SCHOLLA, M; WIGFALL, A  
(DUPO) DU PONT DE NEMOURS & CO E I

CYC 54

PI WO 9510940 A1 950427 (9522)\* EN 26 pp

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE  
W: AU BB BG BR BY CA CN CZ FI GE HU JP KE KG KP KR KZ LK LV MD  
MG MN MW NO NZ PL RO RU SD SI SK TJ TT UA UZ VN

AU 9470544 A 950508 (9533)

US 5503840 A 960402 (9619) 9 pp <--

EP 724388 A1 960807 (9636) EN

R: BE DE ES FR GB IT NL

JP 09504022 W 970422 (9726) 30 pp

ADT WO 9510940 A1 WO 94-US6344 940609; AU 9470544 A AU 94-70544 940609;  
US 5503840 A Cont of US 91-742963 910809, CIP of US 93-6022 930115,  
US 93-139962 931020; EP 724388 A1 EP 94-919377 940609, WO 94-US6344  
940609; JP 09504022 W WO 94-US6344 940609, JP 95-511743 940609

FDT AU 9470544 A Based on WO 9510940; US 5503840 A Cont of US 5180585;  
EP 724388 A1 Based on WO 9510940; JP 09504022 W Based on WO 9510940

PRAI US 93-139962 931020; US 91-742963 910809; US 93-6022 930115

AN 95-169975 [22] WPIDS

CR 93-052821 [06]; 94-248760 [30]; 97-107535 [10]

AB WO 9510940 A UPAB: 970313

An antimicrobial compsn. consists of: (a) coated inorganic particles capable of controlling the lustre of a **polymer**, with successive coatings of about 0.2-1 wt.% silver, an opt. coating of 0.2-0.8 wt.% of at least one member from zinc, zinc oxide, zinc silicate, copper and copper oxide, a protective coating and about 1-3 wt.% of dispersion coating; and (b) 0.2-3 wt.% of dispersion aid.

Also claimed is an antimicrobial, shaped **polymer** article contg. **polymeric** carrier matrix and antimicrobial compsn. as above.

**USE** - Used in carpet yarn, backing e.g. foam, latex, pad, adhesives, shoe interlining, swim wear, military uniforms, socks, bedding materials, towels, etc..

**ADVANTAGE** - Effective against a wide range of microorganisms such as bacteria, fungi, algae, protozoa, viruses, etc..

Dwg.0/0

ABEQ US 5503840 A UPAB: 960510

An antimicrobial compsn. comprises coated core particles comprising a mixt. of titania, barium sulphate and zinc oxide that have an

average dia. of 0.005 - 3.0 microns, and the core particles are coated successively based on the particles, with (a) 0.2 - at least 1 wt. % silver, (b) 0.2 -at least 0.8 wt. % of zinc (oxide), zinc silicate, and/or copper ((II) oxide), (c) 0.2 - 5 wt. % of a protective coating; (d) 1 - at least 3 wt. % of a dispersion coating; and Led 0.2 - 3 wt. % of a dispersion aid.

Dwg.0/0

L108 ANSWER 13 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 95-106190 [14] WPIDS  
 CR 94-091552 [11]; 94-092359 [11]  
 DNC C95-048400  
 TI Water-dispersible granular compsns. - comprising a di nitro-aniline herbicide, an imidazolinone herbicide and a montmorillonite carrier.  
 DC A97 C03  
 IN KIMLER, J; KUBISCH, R  
 PA (AMCY) AMERICAN CYANAMID CO  
 CYC 8  
 PI US 5393731 A 950228 (9514)\* 6 pp  
 AU 9480281 A 950615 (9532)  
 CA 2137412 A 950609 (9536)  
 CZ 9402978 A3 950712 (9538)  
 HU 69066 T 950828 (9540) <--  
 BR 9404897 A 950808 (9545)  
 JP 07252107 A 951003 (9548) 7 pp  
 TW 275562 A 960511 (9635)  
 ADT US 5393731 A CIP of US 92-996221 921223, CIP of US 92-996412 921223,  
 US 93-164169 931208; AU 9480281 A AU 94-80281 941207; CA 2137412 A  
 CA 94-2137412 941206; CZ 9402978 A3 CZ 94-2978 941130; HU 69066 T HU  
 94-3504 941207; BR 9404897 A BR 94-4897 941208; JP 07252107 A JP  
 94-321203 941201; TW 275562 A TW 94-111444 941208  
 FDT US 5393731 A CIP of US 5294594, CIP of US 5296450  
 PRAI US 92-996221 921223; US 92-996412 921223; US 93-164169 931208  
 AN 95-106190 [14] WPIDS  
 CR 94-091552 [11]; 94-092359 [11]  
 AB US 5393731 A UPAB: 950412  
 Water-dispersible granular compsn. comprises: (a) 20-90 wt.% of a dinitroaniline herbicide; (b) 1-20 wt.% of an imidazolinone herbicide, (c) 5-25 wt.% of a montmorillonite carrier; (d) 1.0-7.5 wt.% of a wetting agent; (e) 2-10 wt.% of a suspension agent; and (f) 0.05-20 wt.% of a dispersion enhancing agent.

The dispersion enhancing agent is selected from a base esp. NaOH, KOH or isopropyl amine) and a water-swellable **polymer** (esp. comprising 2-pyrrolidinone, 1-ethanol, homopolymer, or comprising cellulosic material). The compsn. also comprises upto 1 wt.% of antifoaming agent and upto 7.5 wt.% of a flow agent. Component (a) is selected from pendimethalin, trifluralin, isopropalin, ethalfluralin, benfluralin and oryzalin. Component (b) is selected from amazaquin, imazethapyr, imazamethapyr or imazapyr. The carrier is selected from beidellite, bentonite, nortronite and/or saponite.

USE - The compsns. may be used for control of a wide variety of broadleaf weeds and grasses.

ADVANTAGE - The compsns. are storage stable and have improved dispersion properties.

Dwg.0/0

AN 95-074666 [10] WPIDS  
 DNC C95-033234  
 TI Injectable pharmaceutical compsns., esp. for intra-ocular injection  
   - comprising drug and biodegradable block **copolymer**.  
 DC A96 B05 B07  
 IN COUSINS, S; DAVIS, P; DAVIS, P A  
 PA (UYMI-N) UNIV MIAMI  
 CYC 8  
 PI US 5384333 A 950124 (9510)\*        5 pp        <--  
     EP 717999 A1 960626 (9630) # EN        8 pp  
       R: DE FR GB IT  
     AU 9481544 A 960711 (9635) #  
     JP 08176016 A 960709 (9637) #        6 pp  
     CA 2138474 A 960620 (9641) #  
     AU 677115 B 970410 (9727) #  
 ADT US 5384333 A US 92-852948 920317; EP 717999 A1 EP 94-309491 941219;  
     AU 9481544 A AU 94-81544 941219; JP 08176016 A JP 94-333816 941219;  
     CA 2138474 A CA 94-2138474 941219; AU 677115 B AU 94-81544 941219  
 FDT AU 677115 B Previous Publ. AU 9481544  
 PRAI US 92-852948 920317; EP 94-309491 941219; AU 94-81544 941219;  
     JP 94-333816 941219; CA 94-2138474 941219  
 AN 95-074666 [10] WPIDS  
 AB US 5384333 A UPAB: 950314  
 Injectable pharmaceutical compsns. comprise a mixt. of 0.5-70 wt.%  
 drug and 30-99.5 wt.% biodegradable **polymer**. The  
**polymer** is solid at 20-37 deg.C and flowable at 38-52 deg.C,  
 and is an A-B-A block **copolymer**, where A is a hydrophobic  
**polymer** or oligomer and B is a hydrophilic **polymer**  
 or oligomer.

Also claimed is a compsn. as above where A is polyglycolic acid, polyethylene terephthalate, polybutyl lactone polycaprolactone (sic; elsewhere given as polybutyl lactose, polycaprolactone), poly-D-lactic acid, poly-L-lactic acid, polyglutamic acid, poly-L-lysine or poly-L-aspartic acid, and B is polyethylene glycol (PEG), polypropylene glycol or polyvinyl alcohol.

USE - The compsns. are useful for intraocular injection of ophthalmic drugs, esp. antimetabolites, antiinflammatory agents or antibiotics. They could also be used for intralesional, intra-articular or intracranial injection.

ADVANTAGE - The compsns. can be injected in liq. form into the eye, where they form a solid implant which slowly degrades to release the drug, ultimately degrading completely without leaving a residue.

Dwg.0/0

L108 ANSWER 15 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 94-333151 [41] WPIDS  
 CR 93-052821 [06]; 94-248760 [30]; 97-107535 [10]  
 DNC C94-151586  
 TI **Polymeric** compsns. contg. particulate additives with inorganic surface coating - further coated with carboxylic acid ester of phosphoric acid tri ester to reduce leaching of the inorganic components.  
 DC A60 E19 E37 F01 G01  
 IN JACOBSON, H W; KURIAN, J V; SACKINGER, S T; SHAH, C S; SACKINGER, T S; SHAH, C  
 PA (DUPO) DU PONT DE NEMOURS & CO E I  
 CYC 24

PI WO 9422962 A1 941013 (9441)\* EN 16 pp  
 RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE  
 W: AU BR CA JP KR  
 AU 9465297 A 941024 (9505)  
 CN 1095083 A 941116 (9545)  
 BR 9406056 A 951226 (9609)  
 EP 693096 A1 960124 (9609) EN  
 R: DE ES FR GB IT  
 TW 275075 A 960501 (9634)  
 JP 08508537 W 960910 (9704) 31 pp  
 AU 674072 B 961205 (9706)  
 US 5643592 A 970701 (9732) 5 pp <--  
 EP 693096 B1 970730 (9735) EN 7 pp  
 R: DE ES FR GB IT  
 DE 69404642 E 970904 (9741)  
 ES 2105687 T3 971016 (9748)

ADT WO 9422962 A1 WO 94-US3644 940404; AU 9465297 A AU 94-65297 940404;  
 CN 1095083 A CN 94-103546 940405; BR 9406056 A BR 94-6056 940404, WO  
 94-US3644 940404; EP 693096 A1 EP 94-912940 940404, WO 94-US3644  
 940404; TW 275075 A TW 94-103333 940414; JP 08508537 W JP 94-522434  
 940404, WO 94-US3644 940404; AU 674072 B AU 94-65297 940404; US  
 5643592 A Cont of US 91-742963 910809, CIP of US 93-6022 930115,  
 Cont of US 93-42965 930405, US 94-294004 940822; EP 693096 B1 EP  
 94-912940 940404, WO 94-US3644 940404; DE 69404642 E DE 94-604642  
 940404, EP 94-912940 940404, WO 94-US3644 940404; ES 2105687 T3 EP  
 94-912940 940404

FDT AU 9465297 A Based on WO 9422962; BR 9406056 A Based on WO 9422962;  
 EP 693096 A1 Based on WO 9422962; JP 08508537 W Based on WO 9422962;  
 AU 674072 B Previous Publ. AU 9465297, Based on WO 9422962; US  
 5643592 A Cont of US 5180585; EP 693096 B1 Based on WO 9422962; DE  
 69404642 E Based on EP 693096, Based on WO 9422962; ES 2105687 T3  
 Based on EP 693096

PRAI US 93-42965 930405; US 91-742963 910809; US 93-6022 930115;  
 US 94-294004 940822

AN 94-333151 [41] WPIDS

CR 93-052821 [06]; 94-248760 [30]; 97-107535 [10]

AB WO 9422962 A UPAB: 970813

A **polymeric** compsn. comprises an organic **polymer** incorporating a finely-divided particulate additive comprising TiO<sub>2</sub> with an inorganic surface coating comprising (wt.%): SiO<sub>2</sub> (0.01-1.5); Al<sub>2</sub>O<sub>3</sub> (1-3); Mn (0.01-1) and phosphate (0.01-2), the particles having an outer surface coating cpd. comprising esters of 6-40C aliphatic and aromatic carboxylic acids and triesters of phosphoric acid, the cpd. comprising 0.05-3 wt.% of the additive.

Also claimed is a compsn. as above, but with the inorganic coating comprising (wt.%): SnO<sub>2</sub> (30-40); SbO<sub>2</sub> (3-5); and SiO<sub>2</sub> (2-4).

Pref. the average dia. of the particles is 0.01-100 (0.1-5) microns; the surface coating cpd. comprises 8C diesters of azelaic acid, esp. di(n-octyl)azelate and/or di(2-ethylhexyl)azelate; and the organic **polymer** comprises polyamide and polyester (co) **polymers**.

USE/ADVANTAGE - In the prodn. of fibres contg. surface-treated TiO as pigment, delustrant or anti-static additive. Leaching of the inorganic coating components from the particle surface is reduced during processing; dispersion is improved and the rate of back pressure rise is reduced thereby reducing filament break level; and anti-static additives are less prone to moisture absorption.

Dwg.0/0

ABEQ US 5643592 A UPAB: 970806

A **polymeric** composition comprising an organic **polymer** selected from the group consisting of polyamides, polyesters, polyolefins, vinyl **polymers**, fluorocarbon **polymers**, polyurethanes, segmented polyurethane elastomers, polyethers, polysulphides, polysulphones, polysiloxanes, and cellullosic **polymers**, the organic **polymer** incorporating a particulate additive consisting of finely-divided particles having an average diameter of about 0.01 to about 100 microns and being selected from the group consisting of TiO<sub>2</sub> with at least an inorganic surface coating, coloured pigments substantially free of metal chromate, anti-tackiness additives for elastic **polymers**, and inorganic particles which impart electrical conductivity to **polymers**, the finely-divided particles having an organic surface coating comprised of a compound selected from the group consisting of 8 C diesters of azelaic acid and mixtures thereof, the compound of the organic surface coating comprising about 0.05 to about 3% by weight of the particulate additive.

Dwg.0/0

ABEQ EP 693096 B UPAB: 970828

A **polymeric** composition comprising an organic **polymer** incorporating a particulate additive comprising finely-divided particles selected from the group consisting of TiO<sub>2</sub> with an inorganic surface coating, the inorganic surface coating comprising, based on the weight of the additive, 0.01 - 1.5 % of SiO<sub>2</sub>, and 1 to 3 % Al<sub>2</sub>O<sub>3</sub>, 0.01 to 1 % manganese and 0.01 to 2 % phosphate, the finely-divided particles having a surface coating comprised of a compound selected from the group consisting of 8 C diesters of azelaic acid, the compound of the surface coating comprising 0.05 to 3 % by weight of the additive.

Dwg.0/0

L108 ANSWER 16 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 94-332692 [41] WPIDS

DNC C94-151251

TI Encapsulated, biologically-active microparticle agglomerate(s) - comprises closely-associated microparticles, coated partially or completely by at least one discrete layer of **polymer**, etc..

DC A97 C07 P33

IN LEONHARDT, A; NASTKE, R; NEUENSCHWANDER, E  
 PA (CIBA) CIBA GEIGY AG; (NOVS) NOVARTIS AG

CYC 56

PI WO 9422303 A1 941013 (9441)\* EN 18 pp

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE  
 W: AU BB BG BR BY CA CN CZ FI GE HU JP KG KP KR KZ LK LV MD MG  
 MN MW NO NZ PL RO RU SD SI SK TJ TT UA US UZ VN

AU 9465035 A 941024 (9505)

ZA 9402296 A 941228 (9507) 16 pp

EP 691811 A1 960117 (9608) EN

R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

JP 08508274 W 960903 (9704) 20 pp &lt;--

IL 109117 A 980208 (9812)

ADT WO 9422303 A1 WO 94-EP881 940321; AU 9465035 A AU 94-65035 940321;  
 ZA 9402296 A ZA 94-2296 940331; EP 691811 A1 EP 94-912492 940321, WO  
 94-EP881 940321; JP 08508274 W JP 94-521624 940321, WO 94-EP881  
 940321; IL 109117 A IL 94-109117 940324

FDT AU 9465035 A Based on WO 9422303; EP 691811 A1 Based on WO 9422303;  
 JP 08508274 W Based on WO 9422303

PRAI GB 93-6808 930401

AN 94-332692 [41] WPIDS

AB WO 9422303 A UPAB: 971006

Encapsulated, biologically-active, microparticle agglomerates comprise: (I) (i) at least two closely-associated microparticles, each coated partially or completely by at least one discrete layer of **polymer**; and (ii) at least one outer discrete coating layer of the same **polymer** which envelopes the coated microparticles to form an agglomerate of closely-associated microparticles; or (II) (i) a cluster of at least two closely-associated microparticles, each coated partially or completely by at least one layer of **polymer**, the microparticles adhered together through the **polymer** to form the cluster; and (ii) at least one outer discrete coating layer of the same **polymer** as in (III).

In both (I) and (II), an interphase boundary is formed between each particle and the 1st coating layer, between individual coating layers and between the outer agglomerating envelope layer and the penultimate coating layer and the total wt. of **polymer** coating within and outside the agglomerate is no greater than 40% of the ave. agglomerate wt.

USE/ADVANTAGE - Used to treat plant growth deficiencies, pest attack in plants or animals, or nutrient-deficient soil (claimed). High initial release rates are suppressed. Safety is improved and a reduced amt. of coating material is achieved while effecting complete coating.

Dwg.0/2

L108 ANSWER 17 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 94-332691 [41] WPIDS

DNC C94-151250

TI Encapsulated biologically active solid microparticles - comprise 2 layers of **polymer** covering the surface of the particle and provide sustained release esp of agrochemicals.

DC A97 C07 P33

IN LEONHARDT, A; NASTKE, R; NEUENSCHWANDER, E  
 PA (CIBA) CIBA GEIGY AG; (NOVS) NOVARTIS AG

CYC 56

PI WO 9422302 A1 941013 (9441)\* EN 19 pp <--

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE  
 W: AU BB BG BR BY CA CN CZ FI GE HU JP KG KP KR KZ LK LV MD MG  
 MN MW NO NZ PL RO RU SD SI SK TJ TT UA US UZ VN

AU 9464286 A 941024 (9505) <--

ZA 9402295 A 950125 (9511) 16 pp

EP 691810 A1 960117 (9608) EN <--

R: AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

JP 08508273 W 960903 (9704) 19 pp <--

IL 109118 A 980208 (9812) <--

ADT WO 9422302 A1 WO 94-EP880 940321; AU 9464286 A AU 94-64286 940321;  
 ZA 9402295 A ZA 94-2295 940331; EP 691810 A1 EP 94-911938 940321, WO  
 94-EP880 940321; JP 08508273 W JP 94-521623 940321, WO 94-EP880  
 940321; IL 109118 A IL 94-109118 940324

FDT AU 9464286 A Based on WO 9422302; EP 691810 A1 Based on WO 9422302;  
 JP 08508273 W Based on WO 9422302

PRAI GB 93-6852 930401

AN 94-332691 [41] WPIDS

AB WO 9422302 A UPAB: 971006

Encapsulated biologically active solid microparticles are such that each particle comprises (a) a first discrete coating layer of a **polymer** which covers the surface of the particles partially or completely; and (b) at least one further discrete coating layer of the same **polymer** which covers the first layer and any exposed particle surface; so that an inter-phase boundary is formed between the particle and the first coating layer and between the **polymer** layers; and the wt. of each coating layer is 1-30% of the ave. coated particle wt. and the sum of the wts. of the coating layers is no greater than 40% of the ave. coated particle wt.

USE/ADVANTAGE - The microparticles esp. contain pesticides (herbicides, insecticides, acaricides, nematocides, ectoparasiticides and fungicides) or agents to combat plant growth deficiencies. The microparticles give greatly improved sustained release rates of active substance esp. in agricultural applications. Handling safety is improved and a reduced amt. of coating material can be used to achieve complete coating.

Dwg.0/3

L108 ANSWER 18 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 94-248760 [30] WPIDS

CR 93-052821 [06]; 94-333151 [41]; 95-169975 [22]; 97-107535 [10]

DNC C94-113113

TI Antimicrobial compsn. - comprises barium sulphate particles having successive coatings of silver with copper (II) oxide, silica, hydrous alumina and di octyl azelate.

DC A60 A96 D15 D22 E15 F06 G02 J01

IN JACOBSON, H W; SCHOLLA, M H; WIGFALL, A W

PA (DUPO) DU PONT DE NEMOURS & CO E I

CYC 28

PI WO 9415463 A1 940721 (9430)\* EN 55 pp <--

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE  
W: AU BR CA JP KR NO NZ PL RO RU UA

AU 9342785 A 940815 (9442)

TW 241196 A 950221 (9518)

ADT WO 9415463 A1 WO 93-US3188 930406; AU 9342785 A AU 93-42785 930406;  
TW 241196 A TW 93-102999 930420

FDT AU 9342785 A Based on WO 9415463

PRAI US 93-6022 930115

AN 94-248760 [30] WPIDS

CR 93-052821 [06]; 94-333151 [41]; 95-169975 [22]; 97-107535 [10]

AB WO 9415463 A UPAB: 970813

Antimicrobial compsn. consists of barium sulphate particles having successive coatings of 0.05-3 wt.% Ag with 0.05-3 wt.% CV(II) oxide, 0.1-6 wt.% silica, 0.1-6 wt.% hydrous alumina and 0.2-3 wt.% dioctyl azelate.

USE/ADVANTAGE - Used for controlling microorganisms. The bifunctional powders are useful for delustering fibres and provide antimicrobial properties. The antimicrobial additive is easily dispersible within the **polymer** matrix without adverse effects on **polymer** properties. The antimicrobial remains active for long periods. Undesirable colouring or staining of **polymer** articles and deterioration of its physical properties etc are avoided by the incorporation of the secondary coating comprising silica, silicate, alumina etc. This also influences the rate of diffusion of the antimicrobial component,

thus prolonging its life. The ability to adjust the dispersibility of the particulate compsns. increases their use efficiency and improves the quality of the prod. The compsns. can be employed in paints, coatings, caulk, grouts, mortar cements, masonry prods and shaped **polymeric** articles including films, membranes, fibres and mono-filaments such as brushes. The compsn. may be used to replace some or all of fillers and/or pigments used in such prods. When TiO<sub>2</sub> is selected as core material, the powder formed when incorporated into a fibre will deluster the fibre and confer antimicrobial properties.

Dwg.0/0

L108 ANSWER 19 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 94-183020 [22] WPIDS  
 DNC C94-082897  
 TI Water-dispersible granules of agricultural chemicals - contain **copolymer** of (non)crosslinked N-alkenyl lactam co- or homo-**polymer** and co-monomer of alkenoic acid, alkenyl anhydride etc..  
 DC A14 A97 C07  
 IN CHAUDHURI, R K; FU, E; NARAYANAN, K S; FU, E W  
 PA (ISPI-N) ISP INVESTMENTS INC  
 CYC 2  
 PI WO 9410841 A1 940526 (9422)\* EN 16 pp <--  
 AU 9455371 A 940608 (9435) <--  
 EP 669801 A1 950906 (9540) EN <--  
 JP 08503211 W 960409 (9645) 13 pp  
 ADT WO 9410841 A1 WO 93-US9764 931013; AU 9455371 A AU 94-55371 931013;  
 EP 669801 A1 WO 93-US9764 931013, EP 94-900353 931013; JP 08503211 W  
 WO 93-US9764 931013, JP 94-512080 931013  
 FDT AU 9455371 A Based on WO 9410841; EP 669801 A1 Based on WO 9410841;  
 JP 08503211 W Based on WO 9410841  
 PRAI US 92-978014 921118  
 AN 94-183020 [22] WPIDS  
 AB WO 9410841 A UPAB: 940722  
 A water-dispersible granule of an active agricultural chemical includes 1-25 wt.% of a **copolymer** of (a) a crosslinked or non-crosslinked N-alkenyl lactam homopolymer or **copolymer**, in which the lactam unit of the **polymer** is represented by the formula (I), where R = 3-6C alkylene opt. substd. by 1-20C alkyl, R<sub>1</sub> and R<sub>2</sub> - H or 2-20C alkyl, and n is zero or 2, and their mixts., and (b) a 2-30C comonomer selected from an alkenoic acid, an alkenyl-anhydride, ester, ether, amino ester or amino amide and a alpha mono- or di-olefin.  
 USE - The granules are free-flowing and non-dusting and are characterised by low granule friability and superior granule crush strength. They form stable suspensions in water without deleterious foaming.  
 Dwg.0/1

L108 ANSWER 20 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 94-036973 [05] WPIDS  
 DNC C94-016945  
 TI Double coated granules for agricultural use - allow rapid release of active cpds. e.g. insecticide or fungicide, starting several weeks after spreading, timed by appropriate choice of coating **polymers**..  
 DC A97 C07

IN AKIHIKO, O; HIROFUMI, N; KATUHIDE, N  
PA (UBEI) UBE CHEM FERTILIZER LTD; (UBEI) UBE IND LTD; (UBEI) UBE KASEI  
HIRYO KK  
CYC 2  
PI FR 2692754 A1 931231 (9405)\* 45 pp <--  
JP 06009303 A 940118 (9410) 7 pp  
JP 06009304 A 940118 (9410) 8 pp  
JP 06072805 A 940315 (9415) 8 pp <--  
JP 06080514 A 940322 (9416) 7 pp <--  
ADT FR 2692754 A1 FR 93-7851 930628; JP 06009303 A JP 92-193049 920626;  
JP 06009304 A JP 92-193050 920626; JP 06072805 A JP 92-223150  
920710; JP 06080514 A JP 92-223149 920710  
PRAI JP 92-193049 920626; JP 92-193050 920626; JP 92-223149 920710;  
JP 92-223150 920710  
AN 94-036973 [05] WPIDS  
AB FR 2692754 A UPAB: 940315  
Compsn. (A) comprises a nucleus contg. an agricultural chemical, a primary coating of a hydrophilic **polymer** which swells by water absorption and a second coating of an olefinic **polymer**, polyamide, polyester, polyether or polyimide. Also claimed is a compsn. (B) comprising a nucleus contg. an agricultural chemical with a primary coating of an alkaline material and a second coating of a mixt. of a **polymer** soluble in aq. alkali and an olefinic **polymer**, polyamide, polyester, polyether, or polyimide.

USE/ADVANTAGE - Water absorption by the coated granules causes rupture and release of the agricultural chemical. Choice of coatings determines how long after application this takes place. It is possible to make one application of a coated granule mixt. which will release the agricultural chemicals at several stages during crop growth, hence reducing labour. The active chemical may have a neutral support or be combined with a fertilizer. The active chemical may be an insecticide, fungicide, etc.

Dwg.0/0

L108 ANSWER 21 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 94-007205 [01] WPIDS  
DNC C94-002819  
TI Antifungal powder compsn. with improved storage stability - comprises imidazole cpd., e.g. clotrimazole and talc coated with hydrophobic coating.  
DC A96 B02 B03 C02  
IN BEER, D C; SURPRIYA, V B  
PA (SCHE) SCHERING-PLOUGH HEALTHCARE PROD INC  
CYC 43  
PI WO 9325238 A1 931223 (9401)\* EN 12 pp  
RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE  
W: AU BB BG BR CA CZ FI HU JP KR KZ LK MG MN MW NO NZ PL RO RU  
SD SK UA US VN  
AU 9343997 A 940104 (9417)  
ZA 9304007 A 940525 (9423) 10 pp  
US 5711954 A 980127 (9811) 4 pp <--  
ADT WO 9325238 A1 WO 93-US5176 930607; AU 9343997 A AU 93-43997 930607;  
ZA 9304007 A ZA 93-4007 930607; US 5711954 A CIP of US 92-894896  
920608, WO 93-US5176 930607, US 95-347412 950307  
FDT AU 9343997 A Based on WO 9325238; US 5711954 A Based on WO 9325238  
PRAI US 92-894896 920608; US 95-347412 950307  
AN 94-007205 [01] WPIDS

AB WO 9325238 A UPAB: 940217

Compsn. comprises: (a) an imidazole cpd., selected from clotrimazole, miconazole, terconazole, isoconazole, fenticonazole, omoconazole, parconazole, ketoconazole, metronidazole, itraconazole, or their mixts.; and (b) talc coated with a hydrophobic coating.

The coating is pref. wax, tetrafluoroethylene **polymer**, silicone, stearamide monoethanolamine, or a mixt., esp. wax used in amt. of 0.5-2 wt.% with clotrimizole as the antifungal. Opt. a starch diluent, 5-20% of the compsn., is added.

**ADVANTAGE** - The hydrophobic coating improves the stability of the antifungal agent in both accelerated and normal shelf life tests, while maintaining smooth and free-flowing properties.

Dwg.0/0

ASEQ US 5711954 A UPAB: 980316

Compsn. comprises: (a) an imidazole cpd., selected from clotrimazole, miconazole, terconazole, isoconazole, fenticonazole, omoconazole, parconazole, ketoconazole, metronidazole, itraconazole, or their mixts.; and (b) talc coated with a hydrophobic coating.

The coating is pref. wax, tetrafluoroethylene **polymer**, silicone, stearamide monoethanolamine, or a mixt., esp. wax used in amt. of 0.5-2 wt.% with clotrimizole as the antifungal. Opt. a starch diluent, 5-20% of the compsn., is added.

**ADVANTAGE** - The hydrophobic coating improves the stability of the antifungal agent in both accelerated and normal shelf life tests, while maintaining smooth and free-flowing properties.

Dwg.0/0

L108 ANSWER 22 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 93-088552 [11] WPIDS

DNC C93-039255

TI Long-lasting repellent compsn. for animals and birds - contains cyclodextrin clathrate cpd., opt. coated with resin, higher alcohol, higher fatty acid, fats, waxes and/or mineral oils etc..

DC A97 C07

PA (CHUO-N) CHUO AEROSOL KAGAKU KK

CYC 1

PI JP 05032503 A 930209 (9311)\* 7 pp <--

ADT JP 05032503 A JP 91-211353 910730

PRAI JP 91-211353 910730

AN 93-088552 [11] WPIDS

AB JP05032503 A UPAB: 931122

Repellent compsn. contains cyclodextrin clathrate substances having a bad odour, opt. coated with one or more of resin, higher alcohol, higher fatty acid, fats, waxes, mineral oils, natural and synthetic **polymers**, partic. viscous **polymers**.

Conventional repellents (e.g. natural and synthetic plant essences, extracts and tinctures, synthetic chemicals and flavours) are dissolved in a suitable solvent, if necessary, and added to a satd. soln. of cyclodextrin and the pptd. clathrates are collected by filtration, or repellents are mixed with 0.3 to 3-fold vol. of aq. slurry of cyclodextrin to make pasty mixt., dried and washed to give desired compsn. The compsn. is used to prepare various forms (eg., powder liq. mixt. and aerosols).

**USE/ADVANTAGE** - The long lasting repellent compsn. is effective against animals and birds. Combination of two or more repellents prevent familiarisation.

In an example, in 100ml of purified water, 36.0g of beta-cyclodextrin was added, warmed to 50 deg. C and stirred. To the

mixt., 5g of L-menthol (I) was added and vigorously mixed. The resultant mixt. was lyophilised to give 40.9g of the clathrate. The clathrate left under sunlight showed decreased rate (%) of 3.17, 0.96, 1.03, 0.93, 0.90 and 0.78 on day one, three, five, seven, nine and 11. While a control gp. showed the corresp. rate of 34.52, 19.18, 3.12, 0.15 on day one, three, five and seven, showing rapid vapourisation of cpd.

Dwg.0/0

L108 ANSWER 23 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 93-052821 [06] WPIDS  
 CR 94-248760 [30]; 94-333151 [41]; 95-169975 [22]; 97-107535 [10]  
 DNC C93-023740  
 TI Antimicrobial powder with controlled, extended duration release - comprises core, antimicrobial metal coating, and secondary aluminous or siliceous coating.  
 DC A23 A60 C03 D22 E37 F01 F06 G02 L02  
 IN JACOBSON, H; SAMUELS, S; SCHOLLA, M; JACOBSON, H W; SAMUELS, S L; SCHOLLA, M H  
 PA (DUPON) DU PONT DE NEMOURS & CO E I  
 CYC 39  
 PI US 5180585 A 930119 (9306)\* 15 pp  
 WO 9415462 A1 940721 (9430) # EN 59 pp <--  
 RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL OA PT SE  
 W: AU BB BG BR CA FI HU JP KP KR LK MG MN MW NO NZ PL RO RU SD  
 UA  
 AU 9334412 A 940815 (9442) # <--  
 EP 677989 A1 951025 (9547) # EN <--  
 R: DE  
 JP 08505858 W 960625 (9648) # 50 pp  
 ADT US 5180585 A US 91-742963 910809; WO 9415462 A1 WO 93-US194 930111;  
 AU 9334412 A AU 93-34412 930111, WO 93-US194 930111; EP 677989 A1 EP  
 93-903055 930111, WO 93-US194 930111; JP 08505858 W WO 93-US194  
 930111, JP 94-516449 930111  
 FDT AU 9334412 A Based on WO 9415462; EP 677989 A1 Based on WO 9415462;  
 JP 08505858 W Based on WO 9415462  
 PRAI US 91-742963 910809; WO 93-US194 930111; AU 93-34412 930111;  
 EP 93-903055 930111; JP 94-516449 930111  
 AN 93-052821 [06] WPIDS  
 CR 94-248760 [30]; 94-333151 [41]; 95-169975 [22]; 97-107535 [10]  
 AB US 5180585 A UPAB: 970813  
 Antimicrobial compsn. comprises: (a) inorganic core particles, tens of microns to submicron size, selected from oxides of Ti, Al, Zn, and Cu, sulphates of Ca, Sr, and Ba, ZnS, CuS, zeolites, mica, talc, kaolin, mullite and silica; (b) 0.05-20% by wt./wt. of core particles of a primary surface coating of a metal, or metal cpds., having antimicrobial properties, selected from Ag, its oxide or halides, Cu, both its oxides, or sulphide, Zn oxide, sulphide, or silicate, or a mixt.; which are coated with (c) 0.5-20% wt. of a secondary protective, selected from silica, silicates, boro- or aluminosilicates, alumina, AlPO<sub>4</sub>, or mixts..  
 Also claimed is; in an antimicrobial, shaped **polymer** articles, a **polymeric** carrier matrix comprising at least one **polymer**, and 0.1-60% by wt./total wt. of the antimicrobial compsn., is new.  
 USE/ADVANTAGE - The compsn. provides controlled dispersion of the antimicrobial, mediated by the secondary (c) coating to extend the duration of activity. The coating (c) also functions as a

barrier to prevent interaction with the **polymer** matrix, causing, e.g. colouring, staining, or deterioration of properties. The compsn. is useful for imparting antimicrobial activity to a variety of prods. including paints, coatings, caulk, grouts, mortar, cements, and masonry prods.; also shaped **polymeric** articles including films, membranes, fibres and filaments, to give materials with similar physical properties to the **polymer** alone, opt. with delustering, e.g. by using TiO<sub>2</sub> particles as the core. Examples of applicable fibres are nylon 66, polyethylene terephthalate, or spandex **polymer**. The compsn. can also be used to replace all or part of fillers and/or pigments in a prod.. The compsns. are active against a range of microorganisms, including bacteria, fungi, algae, protozoa, and virusetes, a  
Dwg.0/0

L108 ANSWER 24 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 92-415362 [50] WPIDS  
 DNC C92-184295  
 TI Coated microbial pesticide prepn. using natural bio **polymer** as support - for control of harmful insects, pathogenic fungi, or weeds, by mixing antagonistic microorganisms with bio **polymer** gel or paste, and formulating.  
 DC A97 C05 D16  
 IN BOK, S H; KIM, D Y; KIM, S U; KWON, Y K; LEE, H W; LEE, J W; SON, K H; KIM, S; KWON, Y  
 PA (KORE-N) KOREA RES INST CHEM TECHNOLOGY  
 CYC 7  
 PI WO 9220229 A1 921126 (9250)\* EN 24 pp  
   AU 9217587 A 921230 (9313)  
   EP 540713 A1 930512 (9319) EN 24 pp  
   CN 1066959 A 921216 (9335)  
   JP 05507734 W 931104 (9349) 9 pp  
   AU 642821 B 931028 (9350)  
   US 5273749 A 931228 (9401) 7 pp      <--  
   BR 9205317 A 940621 (9428)  
   TW 233242 A 941101 (9503)  
   JP 08032615 B2 960329 (9618) 9 pp  
   CA 2087613 C 961119 (9706)  
 ADT WO 9220229 A1 WO 92-KR17 920522; AU 9217587 A AU 92-17587 920522, WO 92-KR17 920522; EP 540713 A1 EP 92-910398 920522, WO 92-KR17 920522; CN 1066959 A CN 92-103777 920523; JP 05507734 W JP 92-510547 920522; WO 92-KR17 920522; AU 642821 B AU 92-17587 920522; US 5273749 A CIP of US 91-744260 910813, US 92-838476 920219; BR 9205317 A BR 92-5317 920522, WO 92-KR17 920522; TW 233242 A TW 92-104021 920522; JP 08032615 B2 JP 92-510547 920522, WO 92-KR17 920522; CA 2087613 C CA 92-2087613 920522  
 FDT AU 9217587 A Based on WO 9220229; EP 540713 A1 Based on WO 9220229; JP 05507734 W Based on WO 9220229; AU 642821 B Previous Publ. AU 9217587, Based on WO 9220229; BR 9205317 A Based on WO 9220229; JP 08032615 B2 Previous Publ. JP 05507734, Based on WO 9220229  
 PRAI KR 91-8328 910523  
 AN 92-415362 [50] WPIDS  
 AB WO 9220229 A UPAB: 931116  
 Prepn. of a coated microbial pesticide comprises; (a) processing a biopolymer, selected from microbiologically metalbolisable **polymer** contg. natural substances and the corresp. **polymers** extd. from them, or their derivs. into the form of a gel or paste at elevated temp.; (b) cooling to a lower temp.; (c)

mixing or coating one or more antagonistic microorganisms with the biopolymer; and (d) formulating and drying.

USE/ADVANTAGE - The **polymers** are inexpensive, abundant, biodegradable, and therefore pollution free; in addn., they can be a source of metabolic nutrients to the microorganisms. Extra nutrient are obtd. added. Processing to a gel or paste provides adhesiveness to the target. The coated prod. is used for efficient delivery of the bioactive material to harmful insects, plant pathogenic fungi, or weeds requiring control, or against diseases caused by these pathogens, on plants or soil, also water. For use on water, a floatable material is incluhe

Dwg.0/0

ABEQ EP 540713 A UPAB: 931113

Prepn. of a coated microbial pesticide comprises; (a) processing a biopolymer, selected from microbiologically metabolisable **polymer** contg. natural substances and the corresp. **polymers** extd. from them, or their derivs. into the form of a gel or paste at elevated temp.; (b) cooling to a lower temp.; (c) mixing or coating one or more antagonistic microorganisms with the biopolymer; and (d) formulating and drying.

USE/ADVANTAGE - The **polymers** are inexpensive, abundant, biodegradable, and therefore pollution free; in addn., they can be a source of metabolic nutrients to the microorganisms. Extra nutrients are obtd. Processing to a gel or paste provides adhesiveness to the target. The coated prod. is used for efficient delivery of the bioactive material to harmful insects, plant pathogenic fungi, or weeds requiring control, or against diseases caused by these pathogens, on plants or soil, also water. For use on water, a floatable material is included.

Dwg.0/0

ABEQ JP05507734 W UPAB: 940126

Prepn. of a coated microbial pesticide comprises (a) processing a biopolymer, selected from microbiologically metabolisable **polymer** contg. natural substances and the corresp. **polymers** extd. from them, or their derivs. into the form of a gel or paste at elevated temp.; (b) cooling to a lower temp.; (c) mixing or coating one or more antagonistic microorganisms with the biopolymer; and (d) formulating and drying.

USE/ADVANTAGE - The **polymers** are inexpensive, abundant, biodegradable, and therefore pollution free; in addn., they can be a source of metabolic nutrients to the microorganisms. Extra nutrient are obtd. added. Processing to a gel or paste provides adhesiveness to the target. The coated prod. is used for efficient delivery of the bioactive material to harmful insects, plant pathogenic fungi, or weeds requiring control, or against diseases caused by these pathogens, on plants or soil, also water. For use on water, floatable material is included.

Dwg.0/0

ABEQ US 5273749 A UPAB: 940217

Prepn. of an unfermented microbial pesticide comprises (a) forming a gel or paste by mixing a **bio-polymer** (grains, tubers, tuberous roots or starch extracted from them, agar, gelatin, polygalacturonic acid, chitosan, carboxymethyl cellulose, gelrite or natural wax) with water, and heating to 80-121 deg.C; (b) cooling the gel or paste to between room temp. and 60 deg.C; (c) mixing 1 or more microorganisms (I) (antagonistic to the pests) in amts. of 10 power 4 to 10 power 14 cells per g. of pesticide. Biologically pure cultures of specified (I) are used, e.g., *Bacillus subtilis* subsp.

Krictiensis ATTCC 55078 and 55079, Collectotrichum gloesporioides f. sp. jussiaeas ATCC 52634, and then (d) formulating and drying.

Opt. ingredients are stabilisers for (I), a floatable material, e.g., puffed grain to produce a floatable prod.

Dwg.0/0

L108 ANSWER 25 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 91-310510 [42] WPIDS  
 DNN N91-238036 DNC C91-134481  
 TI Controlled release agricultural prod. by latex coating of core - partic. used for fertilisers for long term plant nutrition.  
 DC A14 A97 C03 C04 P42  
 IN KELCH, R A; THOMPSON, H E; KELCH, R  
 PA (SCOO) SCOTT & SONS CO O M; (SCOO) OMS INVESTMENTS INC; (OMSI-N) OMS INVESTMENTS INC; (SCOO) SCOTT & SON CO O M  
 CYC 23  
 PI WO 9114663 A 911003 (9142)\*  
 RW: AT BE CH DE DK ES FR GB GR IT LU NL SE  
 W: AU CA FI HU JP KR NO  
 AU 9175524 A 911021 (9203)  
 US 5089041 A 920218 (9210)  
 EP 523098 A1 930120 (9303) EN 38 pp  
 R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE  
 US 5186732 A 930216 (9309) 8 pp <--  
 JP 05505789 W 930826 (9339) 9 pp  
 AU 645307 B 940113 (9408)  
 IL 97633 A 941007 (9445)  
 EP 523098 A4 930818 (9527)  
 EP 523098 B1 950823 (9538) EN 14 pp  
 R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE  
 DE 69112393 E 950928 (9544)  
 ES 2079649 T3 960116 (9610)  
 ADT US 5089041 A US 90-497442 900322; EP 523098 A1 EP 91-906809 910322,  
 WO 91-US1950 910322; US 5186732 A Div ex US 90-497442 900322, US  
 91-791037 911112; JP 05505789 W JP 91-507325 910322, WO 91-US1950  
 910322; AU 645307 B AU 91-75524 910322; IL 97633 A IL 91-97633  
 910321; EP 523098 A4 EP 91-906809 ; EP 523098 B1 EP 91-906809  
 910322, WO 91-US1950 910322; DE 69112393 E DE 91-612393 910322, EP  
 91-906809 910322, WO 91-US1950 910322; ES 2079649 T3 EP 91-906809  
 910322  
 FDT EP 523098 A1 Based on WO 9114663; US 5186732 A Div ex US 5089041; JP  
 05505789 W Based on WO 9114663; AU 645307 B Previous Publ. AU  
 9175524, Based on WO 9114663; EP 523098 B1 Based on WO 9114663; DE  
 69112393 E Based on EP 523098, Based on WO 9114663; ES 2079649 T3  
 Based on EP 523098  
 PRAI US 90-497442 900322; US 91-791037 911112  
 AN 91-310510 [42] WPIDS  
 AB WO 9114663 A UPAB: 950705  
 A coated prod. comprises; (a) a water soluble core material; and (b)  
 a water insoluble **polymeric** coating encapsulating the  
 core.  
 The coating comprises a water-borne, polyvinylidene chloride  
 -(PVDC) based latex compsn. which provides for release of the core  
 material over a period of time.  
 USE/ADVANTAGE - Coated prods. as above are useful for  
 controlled release of a variety of active constituents. Although  
 primarily designed for release of fertilisers, the core material may  
 also be a pesticide, herbicide, fungicide, growth regulator,

insecticide, animal and insect repellent, or a mixt. Encapsulated fertilisers, provided by this technique, are efficient and effective for slow release of nutrients for the long term feeding of plants.

@(38pp Dwg.No.0/0)

0/0

ABEQ US 5089041 A UPAB: 930928

Prepn. of controlled release fertilisers comprises coating a particulate water-soluble fertiliser core compsn. with a water-insol. **polymer** coating (I) so that agglomeration is avoided.

(I) comprises a water-borne polyvinylidene chloride based latex compsn. with solids content, Tg and blocking temp. such that agglomeration is avoided. (I) has moisture barrier properties enabling controlled slow release of the fertiliser. Tg is pref. 15-35 deg.C and the blocking temp. at least 32 deg.C.

ADVANTAGE - Multiple applications of fertiliser are avoided and more nutrients are absorbed by the plant, avoiding leaching through the soil.

ABEQ US 5186732 A UPAB: 930928

Coated prods. consist of (A) a water-sol. core material, pref. in particulate form, and which is pref. a fertiliser, pesticide, herbicide, fungicide, growth regulator, insecticide, animal or insect repellent or mixts. of these, encapsulated by (B) a water-based, polyvinylidene chloride-based latex compsn. which allows release of (A) over an extended period of time. Compsns. (B) have a solids content (pref. greater than 50 wt.%), a glass transistion temp. (15-35 deg.C) and a blocking temp. (at least 32 deg.C) sufficient to coat (A) without causing agglomeration.

Pref. prods. are controlled release fertilisers, where (B) is obtd. from 80-92 wt.% of vinylidene chloride, 5-14 wt.% of an ethylenically unsatd. monomer, 0.05-0.5 wt.% of an anionic surfactant and 3-5% of a non-ionic surfactant.

0/0

ABEQ JP05505789 W UPAB: 931123

A coated prod. comprises: (a) a water soluble core material; and (b) a water insoluble **polymeric** coating encapsulating the core.

The coating comprises a water-borne, polyvinylidene chloride-(PVDC) based latex compsn. which provides for release of the core material over a period of time.

USE/ADVANTAGE - Coated prods. are useful for controlled release of a variety of active constituents. Although primarily designed for release of fertilisers, the core material may also be a pesticide, herbicide, fungicide, growth regulator, insecticide, animal and insect repellent, or a mixt.. Encapsulated fertilisers, provided by this technique, are efficient and effective for slow release of nutrients for the long term feeding of plants.

ABEQ EP 523098 B UPAB: 950927

A coated fertilizer product comprising a water soluble fertilizer core material having a water insoluble **polymeric** coating encapsulating said core, said encapsulating coating comprising a water-borne, polyvinylidene chloride-based latex composition which provides for the release of said water soluble core material over an extended period of time, said latex composition having a solids content, a glass transition temperature and a blocking temperature sufficient to promote said coating without causing agglomeration, said glass transition temperature being in a range of 15-35 deg.C and said blocking temperature being at least 32 deg.C.

Dwg.0/0

L108 ANSWER 26 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 91-261679 [36] WPIDS  
 DNC C91-113577  
 TI Antimicrobial compsn. - comprising aluminosilicate contg.  
 microbicidal metal ions at coat on silica cell matrix.  
 DC A60 D22 E31 E32 G02 P34  
 IN HAGIWARA, Z; OKUBO, M  
 PA (HAGI-N) HAGIWARA RES CORP; (NIEL-N) JAPAN ELECTRONICS MATERIALS  
 CORP; (NIDS) NIPPON DENSHI ZAIRYO KK; (NIEL-N) JAPAN ELECTRONIC  
 MATERIALS CO  
 CYC 10  
 PI EP 444939 A 910904 (9136)\*  
 R: BE DE FR GB IT NL  
 AU 9171995 A 910829 (9141)  
 CA 2037314 A 910829 (9146)  
 JP 03252308 A 911111 (9151)  
 US 5244667 A 930914 (9338) 14 pp <--  
 JP 06039368 B2 940525 (9419) 16 pp  
 EP 444939 B1 950503 (9522) EN 25 pp  
 R: BE DE FR GB IT NL  
 US 5413789 A 950509 (9524) 14 pp <--  
 DE 69109351 E 950608 (9528)  
 ADT EP 444939 A EP 91-301660 910228; JP 03252308 A JP 90-47856 900228;  
 US 5244667 A US 91-662040 910228; JP 06039368 B2 JP 90-47856 900228;  
 EP 444939 B1 EP 91-301660 910228; US 5413789 A Div ex US 91-662040  
 910228, US 93-61685 930517; DE 69109351 E DE 91-609351 910228, EP  
 91-301660 910228  
 FDT JP 06039368 B2 Based on JP 03252308; US 5413789 A Div ex US 5244667;  
 DE 69109351 E Based on EP 444939  
 PRAI JP 90-47856 900228  
 AN 91-261679 [36] WPIDS  
 AB EP 444939 A UPAB: 951102  
 Compsn. comprises a coat of an aluminosilicate (I) on the surface of  
 silica gel (II). (I) containe metal ions (III) that have  
 microbicidal activity. Zeolites mentioned as some (I). Compsns.  
 pref. have void vol. at least 0.3 cm<sup>3</sup>/g, and specific surface area  
 of 100 m<sup>2</sup>/g and contain 0.003 mmol (III)/100 m<sup>2</sup> of the surface area  
 (anhydrous state). Pref. (III) are Ag, Zn, Cu, Hg, Sn, Pb, Bi, Cd,  
 and Cr. Antimicrobial **polymer** compsn. comprise 0.01-20  
 wt.% of the above compsns. in a **polymer**. Compsn. for use  
 in aq. systems pref. comrpises Ag and/or Zn as (III), esp. (all/100  
 m<sup>2</sup> of surface area) at least 0.0003 mmol Ag, or at least 0.08 mmol  
 Zn, or 0.0002 mmol Ag with 0.02 mmol Zn.  
 USE/ADVANTAGE - Compsns. are useful in paints, pigments, paper,  
 rubber, etc. in providing antimicrobial activity to **polymer**  
 jackets on optical fibres, and in H<sub>2</sub>O treatment (when they have high  
 H<sub>2</sub>O and wear resistance). Compsns. are non-toxic and easily handled,  
 may be mixed homogeneously with carrier **polymers** and are  
 resistant to heat and weathering. Compsns. are effective against a  
 broad range of bacterial and fungi (and also algae in aq. systems).  
 In an example, 0.5 N-NaOH was added (to pH 9.5-10) to a slurry  
 of powdered (II) (1.4 kg) in H<sub>2</sub>O (31), followed by NaAlO<sub>2</sub> (63 g) in  
 H<sub>2</sub>O (31). The mixt. was stirred for 12 hours at 20-30 deg. C/450-500  
 rpm, then filtered and washed (filtrate pH kept at ca 9). The solid  
 was treated with aq. 0.68M-AgNO<sub>3</sub>, and the mixt. was stirred for 7  
 hours at 20-21 deg. C. The prod. was filtered off, washed, dried,

and contained 0.14 mmol Ag/100 m<sup>2</sup>. @ (22pp Dwg. No 0/0)  
0/0

ABEQ US 5244667 A UPAB: 931123

Antimicrobial compsn. comprises a coat of aluminosilicate on the surface of silica gel. Compsn. has pore vol. of 0.3 cub.cm. or more per g. and specific surface area of 100 sq.m. or more per g. Coat comprises partially or completely-substd. ion-exchangeable metal (M) in the aluminosilicate solid coating layer of formula xM<sub>2</sub>/nO.Al<sub>2</sub>O<sub>3</sub>.ySiO<sub>2</sub>.H<sub>2</sub>O. M is Ag, Cu, Zn, Hg, Sn, Pb, Bi, Cd and/or Cr, having valence n; and x, y and z are each respective number of metal oxide, SiO<sub>2</sub> and water. Concn. of microbicidal metal ions is 0.003 mmol or more per 10 sq.m. of surface coating.

ADVANTAGE - Stable and uses a smaller amt. of microbicidal metals.

Dwg.0/0

ABEQ EP 444939 B UPAB: 950609

An antimicrobial composition having an antimicrobial coat of an aluminosilicate on the surface of silica gel, said aluminosilicate containing metal ions having microbicidal action.

Dwg.0/0

ABEQ US 5413789 A UPAB: 950626

Antimicrobial **polymer** compsn. comprises a coat of aluminosilicate on silica gel surface as antimicrobial cpd. having pore vol. of 0.3 cub. cm. per g or more and specific surface area of 100 sq.m. per g or more.

Aluminosilicate coat comprises at least partially-substd. ion-exchangeable metal (M) in the coating layer xM<sub>2</sub>/nO-Al<sub>2</sub>O<sub>3</sub>-ySiO<sub>2</sub>-zH<sub>2</sub>O. **Polymer** is an opt. halogenated organic

**polymer**. M is Ag, Cu, Zn, Hg, Sn, Pb, Bi, Cd and/or Cr.

ADVANTAGE - The compsn. has strong action and is stable using smaller amts. of microbicidal metals.

Dwg.0/0

L108 ANSWER 27 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 91-237729 [32] WPIDS

DNC C91-103359

TI Prepn. of controlled release granules pesticides - by formation of a solid cross-linked polyurethane or poly urea barrier.

DC A25 A26 A97 C03 P42

IN TOCKER, S

PA (DUPO) DU PONT DE NEMOURS & CO E I

CYC 24

PI WO 9110362 A 910725 (9132)\*

RW: AT BE CH DE DK ES FR GB GR IT LU NL SE

W: AU CA JP KR SU US

AU 9171750 A 910805 (9145)

PT 96469 A 911015 (9146)

ZA 9100237 A 920930 (9244) 19 pp

EP 513027 A1 921119 (9247) EN 18 pp <--

R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

CS 9100058 A2 920617 (9250)

NZ 236736 A 930326 (9316) <--

JP 05503697 W 930617 (9329) 6 pp <--

ADT ZA 9100237 A ZA 91-237 910111; EP 513027 A1 EP 91-901981 910108, WO 91-US15 910108; CS 9100058 A2 CS 91-58 910111; NZ 236736 A NZ 91-236736 910110; JP 05503697 W JP 91-502957 910108, WO 91-US15 910108

FDT EP 513027 A1 Based on WO 9110362; JP 05503697 W Based on WO 9110362

PRAI US 90-464434 900112  
AN 91-237729 [32] WPIDS  
AB WO 9110362 A UPAB: 930928

Controlled release granules of pesticides for direct application are prepd. by overcoating a granular carrier contg. a pesticide and one or more polyhydroxylated cpd. and/or water with one or more liquid polyisocyanates and opt. a **polymerisation** catalyst, resulting in interfacial **polymerisation** to a solid cross-linked polyurethane or polyurea barrier.

The pref. temp. is 25-35 deg.C and the reaction time 20-30 mins. The amt. of polyisocyanate is about 1-20% based on the wt. of granular material. The amount of catalyst when used is up to about 5% based on the wt. of polyisocyanate, pref. 0.05-1%. Suitable carriers include sand and aggregated clays, pref. of size 150-4000 microns, more pref. 250-2000 microns. Pref. polyhydroxylated cpds. are ethylene glycol and propylene glycol. Pref. polyisocyanates are methylene-linked polyphenylisocyanates and/or toluene diisocyanates, esp. toluene-2,4-diisocyanate. Suitable **polymerisation** catalysts are organic tert-amines and alkyltin carboxylic esters.

**ADVANTAGE** - The process is more versatile and convenient than known processes. No adjuvants or solvents are required, the process can be applied to porous or non-porous granules; treatment with aq. catalyst soln. is not required; and the active cpd. does not have to be dissolved in the polyisocyanate.

O/O

ABEQ JP05503697 W UPAB: 931116

Controlled release granules pesticides for direct application are prepd. by overcoating a granular carrier contg. a pesticide and one or more polyhydroxylated cpd. and/or water with one or more liquid polyisocyanates and opt. a **polymerisation** catalyst, resulting in interfacial **polymerisation** to a solid-linked polyurethane or polyurea barrier.

The pref. temp. is 25-35 deg.C and the reaction time 25-30 mins. The amt. of polyisocyanate is about 1-20% based on the wt. of granular material. The amount of catalyst when used is up to about 5% based on the wt. of polyisocyanate, pref. 0.05-1%. Suitable carriers include sand and aggregated clays, pref. of size 150-4000 microns, more pref. 250-2000 microns.

Pref. polyhydroxylated cpds. are ethylene glycol and propylene glycol. Pref. polyisocyanates are methylene-linked polyphenylisocyanates. Suitable **polymerisation** catalysts are organic tert-amines and alkyltin carboxylic esters.

**ADVANTAGE** - The process is more versatile and convenient than known processes. No adjuvants or solvents are required, the process can be applied to porous or non-porous granules; treatment with aq. catalyst soln. is not required; and the active cpd. does not have to be dissolved in the polyisocyanate.

L108 ANSWER 28 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 90-232742 [31] WPIDS  
DNC C90-100452

TI Granules contg. liq. active agents - esp. plant protection agents, and contg. polyurethane binder.

DC A18 A97 C03

IN ANTFANG, E; KERIMIS, D; SINGER, R J; SINGER, R  
PA (FARB) BAYER AG

CYC 14

PI EP 379868 A 900801 (9031)\*

R: BE CH DE ES FR GB IT LI NL  
AU 9047651 A 900726 (9038)  
ZA 9000322 A 901031 (9049)  
JP 02282303 A 901119 (9101)  
US 5047243 A 910910 (9139)  
EP 379868 A3 920401 (9328)  
EP 379868 B1 931208 (9349) DE 7 pp <--  
R: BE CH DE DK ES FR GB IT LI NL  
DE 59003726 G 940120 (9404) <--  
ES 2059836 T3 941116 (9501) <--  
ADT EP 379868 A EP 90-100191 900105; ZA 9000322 A ZA 90-322 900117; JP 02282303 A JP 90-3692 900112; US 5047243 A US 90-461208 900105; EP 379868 A3 EP 90-100191 900105; EP 379868 B1 EP 90-100191 900105; DE 59003726 G DE 90-503726 900105, EP 90-100191 900105; ES 2059836 T3 EP 90-100191 900105  
FDT DE 59003726 G Based on EP 379868; ES 2059836 T3 Based on EP 379868  
PRAI DE 89-3901273 890118  
AN 90-232742 [31] WPIDS  
AB EP 379868 A UPAB: 931116  
Granules contg. liq. active agents comprise: (a) a granular support with a non-absorbent surface; (b) the active agent(s); (c) a polyurethane-based adhesive, opt. mixed with another adhesive based on polyvinyl acetate, polyvinylpyrrolidone, polyvinyl alcohol or a vinyl acetate/di-n-butyl maleate, acrylate ester, vinyl acetate/ethylene, vinyl acetate/ ethylene/vinyl chloride, vinyl acetate/acrylate ester, vinyl acetate/vinyl ester or styrene/acrylate ester **copolymer**, and (d) opt. additives.  
USE/ADVANTAGE - The granules may be used for delivery of plant protection agents, e.g. pesticides, fungicides, herbicides or plant growth regulators. The granules have good abrasion resistance. @ (6pp Dwg. No. 0/0)  
0/0  
ABEQ US 5047243 A UPAB: 930928  
Carrier granules of ave. particle dia. 0.1-3 mm contg. liq. active component comprise (by wt.); (a) 50-99.5% of carrier granules with a non-absorptive surface; (b) 0.1-20% of liq. phosphonic acid deriv(s). as active cpd.; (c) 0.1-4% of adhesive based on polyurethane as a binder, opt. mixed with a further adhesive (I).  
(I) is polyvinyl acetate, polyvinyl pyrrolidone, polyvinyl alcohol, a **copolymer** of vinyl acetate/di-n-butyl maleate, acrylic acid ester, vinyl acetate/ethylene, vinyl acetate/ethylene/vinyl chloride, vinyl acetate/acrylic acid ester, vinyl acetate/vinyl ester or styrene/acrylic acid ester.  
USE (I) is pref. a plant protection agent. @  
ABEQ EP 379868 B UPAB: 940126  
Carrier granules containing liquid active compounds, which contain (a) granular carrier material having a non-absorptive surface, (b) at least one liquid active compound from the plant protection area mixed with fine-grain inorganic solids, (c) at least one adhesive based on polyurethane as a binder, optionally mixed with a further adhesive based on one of the following systems; polyvinyl acetate, polyvinylpyrrolidone, polyvinyl alcohol, **copolymers** of vinyl acetate-di-n-butyl maleate, acrylic acid esters, vinyl acetate/ethylene, vinyl acetate/ethylene/vinyl chloride, vinyl acetate/acrylic acid esters, vinyl acetate/vinyl esters, styrene/acrylic acid esters, and (d) optionally additives.  
Dwg. 0/0

L108 ANSWER 29 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 90-232741 [31] WPIDS  
 DNC C90-100451  
 TI Granules contg. liq. and solid active agents - esp. plant protection agents, and contg. polyurethane binder.  
 DC A18 A97 C03  
 IN ANTFANG, E; KERIMIS, D; SINGER, R J; SINGER, R  
 PA (FARB) BAYER AG  
 CYC 13  
 PI EP 379867 A 900801 (9031)\*  
     R: BE CH DE ES FR GB IT LI NL  
 AU 9048576 A 900726 (9038)  
 ZA 9000323 A 901031 (9049)  
 JP 02282304 A 901119 (9101)  
 EP 379867 A3 920401 (9328)  
 EP 379867 B1 931208 (9349) DE 9 pp <--  
     R: BE CH DE ES FR GB IT LI NL  
 DE 59003725 G 940120 (9404) <--  
 ES 2048325 T3 940316 (9415) <--  
 US 5326573 A 940705 (9426) 5 pp  
 ADT EP 379867 A EP 90-100190 900105; ZA 9000323 A ZA 90-323 900117; JP 02282304 A JP 90-3693 900112; EP 379867 A3 EP 90-100190 900105; EP 379867 B1 EP 90-100190 900105; DE 59003725 G DE 90-503725 900105, EP 90-100190 900105; ES 2048325 T3 EP 90-100190 900105; US 5326573 A Cont of US 90-461207 900105, US 93-23418 930223  
 FDT DE 59003725 G Based on EP 379867; ES 2048325 T3 Based on EP 379867  
 PRAI DE 89-3901274 890118  
 AN 90-232741 [31] WPIDS  
 AB EP 379867 A UPAB: 931116  
 Granules contg. both liq. and solid active agents comprise: (a) a granular support with a non-absorbent surface: (b) the active agents; (c) a polyurethane-based adhesive, opt. mixed with another adhesive based on polyvinyl acetate, polyvinylpyrrolidone, polyvinyl alcohol or a vinyl acetate/di-n-butyl maleate, acrylate ester, vinyl acetate/ethylene, vinyl acetate/ethylene/vinyl chloride, vinyl acetate/acrylate ester, vinyl acetate/vinyl ester or styrene/acrylate ester **copolymer**, and (d) opt. additives.  
 USE/ADVANTAGE - The granules may be used for delivery of plant protection agents, e.g. pesticides, fungicides, herbicides or plant growth regulators. The granules have good abrasion resistance. @ (7pp Dwg. No. 0/0)  
 0/0  
 ABEQ EP 379867 B UPAB: 940126  
 Coated granules containing liquid and solid active compounds and which contain (a) a granular carrier having a non-absorptive surface, (b) at least one liquid active compound besides a solid one, (c) as the binder, at least one adhesive on a polyurethane basis, if appropriate in a mixture with another adhesive on the basis of one of the following systems: polyvinyl acetate, polyvinylpyrrolidone, polyvinyl alcohol, vinyl acetate/di-n-butyl maleate **copolymers**, acrylic esters, vinyl acetate/ethylene, vinyl acetate/ethylene/vinyl chloride, vinyl acetate/acrylic esters, vinyl acetate/vinyl esters, styrene/acrylic esters, as well as (d) finely-divided inorganic solids and, if appropriate, additives.  
 Dwg. 0/0  
 ABEQ US 5326573 A UPAB: 940817  
 Coated granule compsn. comprises non-absorptive carrier granules

(dia. 0.1-3.0 mm; 50-99.5 wt.%), e.g. calcite, dolomite or sand; coated with a mixt. (0.1-20 wt.%) of one or more active liquids and at least one active finely divided solid, dispersed with an adhesive binder (0.1-49 wt.%) based on polyurethane and opt. also poly(vinyl acetate), poly(vinylpyrrolidine), poly(vinyl alcohol) or **copolymers** of vinyl acetate and di-n-butyl maleate, acrylic esters, ethylene or vinyl esters, or styrene/acrylate **copolymers**; and one or more additives (1-40 wt.%), e.g. extenders, grinding aids, dyes, pigments and solvents.

USE/ADVANTAGE - The prods. are plant protection agents, herbicides, fungicides, insecticides, nematocides, acaricides, growth regulators, etc. The prods. are stable on storage, easily transported and easily employed for horticultural and agricultural applications.

Dwg.0/2

L108 ANSWER 30 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 90-092991 [13] WPIDS  
 CR 95-343463 [44]  
 DNN N90-071788 DNC C90-040699  
 TI Water-soluble or -dispersible pesticide granules - comprises soluble or dispersible granular substrate coated with layer(s) of pesticide and soluble polyether glycol binder.  
 DC A97 C03 S03  
 IN TOCKER, S  
 PA (DUPO) DU PONT DE NEMOURS & CO E I  
 CYC 33  
 PI EP 360441 A 900328 (9013)\* EN 21 pp  
     R: AT BE CH DE ES FR GB GR IT LU NL OA SE  
     W: AU BB BG BR DK FI HU JP KR LK MC MG MW NO RO  
     WO 9002486 A 900322 (9015)  
     RW: AT BE CH DE FR GB IT LU NL OA SE  
     W: AU BB BG BR DK FI HU JP KR LK MC MG MW NO RO  
 PT 91617 A 900330 (9017)  
 AU 8941936 A 900402 (9025)  
 CN 1040728 A 900328 (9101)  
 FI 9101052 A 910301 (9123)  
 EP 432200 A 910619 (9125)  
     R: AT BE CH DE FR GB IT LI LU NL SE  
 NO 9100825 A 910301 (9125)  
 ZA 8906725 A 910529 (9125)  
 DK 9100374 A 910502 (9130)  
 BR 8907620 A 910702 (9131)  
 JP 04500515 W 920130 (9211) 33 pp  
 HU 58456 T 920330 (9217)  
 AU 633848 B 930211 (9313) <--  
 EP 360441 B1 940427 (9417) EN 23 pp <--  
     R: AT BE CH DE ES FR GB GR IT LI LU NL SE  
 IL 93568 A 940412 (9422) # <--  
 DE 68914924 E 940601 (9423) <--  
 ES 2063138 T3 950101 (9508) <--  
 ADT EP 360441 A EP 89-308836 890831; EP 432200 A EP 89-909940 890831; ZA 8906725 A ZA 89-6725 890901; JP 04500515 W JP 89-509282 890831; AU 633848 B AU 89-41936 890831; EP 360441 B1 EP 89-308836 890831; IL 93568 A IL 90-93568 900228; DE 68914924 E DE 89-614924 890831, EP 89-308836 890831; ES 2063138 T3 EP 89-308836 890831  
 FDT AU 633848 B Previous Publ. AU 8941936, Based on WO 9002486; DE 68914924 E Based on EP 360441; ES 2063138 T3 Based on EP 360441

PRAI US 88-240896 880902; IL 90-93568 900228

AN 90-092991 [13] WPIDS

CR 95-343463 [44]

AB EP 360441 A UPAB: 951114

Compsn comprises at least one layer comprising, by wt based on total wt of layer and substrate: (1) 0.1-50% water-soluble pesticide or water-soluble or -dispersible form of a pesticide carried by: (2) 1-20% carrier from water-soluble PEG, polypropylene glycol or deriv, **copolymer** or mixt of wt ave mol wt 150-8000; (3) 50-98.9% water-soluble or -dispersible granular substrate of particle dia at least 500 microns.

**ADVANTAGE** - The granules can be prep'd by simple mixing techniques, avoiding the expense of coating appts, and incompatible pesticides can be combined, eg in separate layers and opt also substrate.

ABEQ EP 360441 B UPAB: 940613

A water-soluble or water-dispersible, layered pesticidal granular composition for application by aqueous spraying wherein at least one layer comprises: (1) 0.1 to 50% of a water-soluble pesticide or water-soluble from thereof or water-dispersible form of a pesticide dispersed in; (2) 1 to 20% of a carrier selected from a water-soluble polyethylene glycol, polypropylene glycol or derivative, **copolymer** or mixture thereof having a weight average molecular weight in the range 3000-8000, covering the substrate (3) to form said layer thereon; (3) 50 to 98.9% of a water soluble or water dispersible granular substrate of a particle diameter of at least 500 microns; all percentages being by weight based on the total weight of the layer and substrate.

Dwg.0/0

L108 ANSWER 31 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 89-324202 [44] WPIDS

CR 89-324203 [44]; 90-290311 [38]; 91-148697 [20]; 92-167101 [20];  
92-167153 [20]; 93-395405 [49]; 94-007210 [01]; 94-302971 [37];  
94-324521 [40]; 96-010159 [01]; 97-178399 [16]; 98-158353 [12]

DNN N89-246922 DNC C89-143593

TI Osteogenic devices comprising matrix contg. osteogenic protein - useful for inducing endochondral bone growth e.g. in non-union fractures.

DC A96 B04 B07 D16 D22 P13 P32 P34

IN KUBERASAMPATH, T; OPPERMANN, H; OZKAYNAK, E; RUEGER, D C; RIDGE, R  
J; OPPERMAN, H; KUBERASAMP, T

PA (STRYKER CORP; (CREA-N) CREATIVE BIOMOLECULES INC

CYC 33

PI WO 8909787 A 891019 (8944)\* EN 104 pp

RW: AT BE CH DE FR GB IT LI LU NL OA SE

W: AU BB BG BR DK FI HU JP KP KR LK MC MG MW NO RO SD SU US

AU 8934449 A 891103 (9003)

AU 8935305 A 891103 (9003)

EP 362367 A 900411 (9015)

R: AT BE CH DE FR GB IT LI LU NL SE

EP 372031 A 900613 (9024)

R: AT BE CH DE FR GB IT LI LU NL SE

US 4968590 A 901106 (9047)

JP 03500655 W 910214 (9113)

US 5011691 A 910430 (9119)

JP 03502579 W 910613 (9130)

JP 03504736 W 911017 (9148)

US 5108753 A 920428 (9220) 26 pp  
 US 5182365 A 930126 (9307) 58 pp  
 US 5250302 A 931005 (9341) 28 pp  
 US 5258494 A 931102 (9345) 56 pp  
 US 5324819 A 940628 (9425) 53 pp  
 EP 411105 B1 950621 (9529) EN 28 pp  
     R: AT BE CH DE DK ES FR GB IT LI LU NL SE  
 EP 362367 B1 960228 (9613) EN 59 pp  
     R: AT BE CH DE FR GB IT LI LU NL SE  
 US 5496552 A 960305 (9615) 27 pp <--  
 DE 68925773 E 960404 (9619)  
 EP 714665 A2 960605 (9627) EN 50 pp  
     R: AT BE CH DE FR GB IT LI LU NL SE  
 EP 723013 A2 960724 (9634) EN 45 pp  
     R: AT BE CH DE FR GB IT LI LU NL SE  
 JP 2522568 B2 960807 (9636) 38 pp  
 JP 08187084 A 960723 (9639) 38 pp  
 CA 1338663 C 961022 (9702)  
 JP 08322570 A 961210 (9708) 33 pp  
 JP 08336390 A 961224 (9710) 41 pp  
 US 5670336 A 970923 (9744) 53 pp  
 EP 714665 A3 971203 (9817)  
 US 5750651 A 980512 (9826)  
 ADT EP 362367 A EP 89-904986 890407; EP 372031 A EP 89-904959 890407; US 4968590 A US 88-179406 880408; JP 03500655 W JP 89-504771 890407; US 5011691 A US 89-315342 890223; JP 03502579 W JP 89-504777 890407; JP 03504736 W JP 90-504059 900222; US 5108753 A US 90-579865 900907; US 5182365 A CIP of US 88-179406 880408, CIP of US 88-232630 880815, Div ex US 89-315342 890223, US 90-621988 901204; US 5250302 A Div ex US 88-179406 880408, Div ex US 90-579865 900907, US 92-827052 920128; US 5258494 A CIP of US 88-179406 880408, CIP of US 88-232630 880815, Div ex US 89-315342 890223, Cont of US 90-621988 901204, US 92-995345 921222; US 5324819 A CIP of US 88-179406 880408, CIP of US 88-232630 880815, Div ex US 89-315342 890223, Div ex US 90-621988 901204, US 92-950229 920924; EP 411105 B1 EP 90-904002 900222, WO 90-US912 900222; EP 362367 B1 EP 89-904986 890407, WO 89-US1453 890407; US 5496552 A Div ex US 88-179406 880408, Div ex US 90-579865 900907, Cont of US 92-827052 920128, Cont of US 93-103604 930806, US 94-268252 940629; DE 68925773 E DE 89-625773 890407, EP 89-904986 890407, WO 89-US1453 890407; EP 714665 A2 Div ex EP 89-904986 890407, EP 95-201872 890407; EP 723013 A2 Div ex EP 89-904959 890407, EP 96-200044 890407; JP 2522568 B2 JP 89-504771 890407, WO 89-US1453 890407; JP 08187084 A Div ex JP 89-504777 890407, JP 95-263371 890407; CA 1338663 C CA 89-596144 890407; JP 08322570 A Div ex JP 96-3435 890407, JP 96-84325 890407; JP 08336390 A Div ex JP 89-504771 890407, JP 96-3435 890407; US 5670336 A CIP of US 88-179406 880408, CIP of US 88-232630 880815, Div ex US 89-315342 890223, Div ex US 92-995345 921222, Cont of US 93-145812 931101, US 95-376731 950120; EP 714665 A3 Div ex EP 89-904986 890407, EP 95-201872 890407; US 5750651 A CIP of US 88-179406 880408, CIP of US 88-232630 880815, Div ex US 89-315342 890223, Div ex US 92-995345 921222, US 93-145812 931101  
 FDT US 5108753 A Div ex US 4968590; US 5182365 A CIP of US 4968590, Div ex US 5011691; US 5250302 A Div ex US 4968590, Div ex US 5108753; US 5258494 A CIP of US 4968590, Div ex US 5011691; US 5324819 A CIP of US 4968590, Div ex US 5011691; EP 411105 B1 Based on WO 9010018; EP 362367 B1 Based on WO 8909787; US 5496552 A Div ex US 4968590, Div ex US 5108753, Cont of US 5250302; DE 68925773 E Based on EP 362367,

Based on WO 8909787; JP 2522568 B2 Previous Publ. JP 03500655, Based on WO 8909787; US 5670336 A CIP of US 4968590, Div ex US 5011691, Div ex US 5258494; EP 714665 A3 Div ex EP 362367; US 5750651 A CIP of US 4968590, Div ex US 5011691, Div ex US 5258494

PRAI US 89-315342 890223; US 88-179406 880408; US 88-232630 880815;  
US 90-579865 900907; US 90-621988 901204; US 92-827052 920128;  
US 92-995345 921222; US 92-950229 920924; US 89-422613 891017;  
US 93-103604 930806; US 94-268252 940629; US 93-145812 931101;  
US 95-376731 950120

AN 89-324202 [44] WPIDS

CR 89-324203 [44]; 90-290311 [38]; 91-148697 [20]; 92-167101 [20];  
92-167153 [20]; 93-395405 [49]; 94-007210 [01]; 94-302971 [37];  
94-324521 [40]; 96-010159 [01]; 97-178399 [16]; 98-158353 [12]

AB WO 8909787 A UPAB: 980406

Osteogenic device for implantation in a mammal comprises a biocompatible, in vivo biodegradable matrix (I), defining pores of sufficient dimension to permit influx, proliferation and differentiation of migratory progenitor cells from the body, and, disposed in the matrix and accessible to the cells, pure osteogenic protein (II), which is capable of inducing endochondrial bone formation in the mammal.

Also claimed is a DNA sequence encoding a protein which induces bone or cartilage formation when implanted in a mammal in association with a matrix. The novel DNA is duplicative of a gene of defined sequence.

(I) comprises demineralised, protein-extd., particulate, allogenic bone, or demineralised, protein-extd., particulate, deglycosylated xenogenic bone. In glycosylated form, (II) has an apparent mol. wt. of 30 kD (as determined by SDS-polyacrylamide gel electrophoresis). Redn. yields two polypeptides of mol. wts. 16 and 18 kD. In unglycosylated form, (II) has an apparent mol. wt. of 27 kD, on redn. yielding polypeptides of 14 and 16 kD.

USE/ADVANTAGE - The efficacy of bone-inducing potential of the devices was tested in cat and rabbit models and found to be potent inducers of osteogenesis, ultimately resulting in formation of mineralised bone. Clinical applicns. include correction of acquired and congenital craniofacial and other skeletal or dental anomalies, induction of local endochondrial formation in non-union fractures, periodontal applicns. requiring bone formation, and cartilage repair, e.g. in the treatment of osteoarthritis. (II) has a half-max. bone forming activity of 0.8-1.0 ng/mg of implant.

Dwg.0/19

ABEQ US 4968590 A UPAB: 930923

Pure mammalian osteogenic protein induces endochondral bone formation in association with a matrix upon implantation.

Osteogenic protein has half max. activity of 25-50 ng per 25 mg of matrix.

Protein has apparent mol.wt. of 30kD when oxidised w.r.t. mol.wt. standards in SDS-polyacrylamide gel electrophoresis, and comprises 2 separate polypeptide chains, each of apparent mol.wt. 16kD and 18kD respectively.

USE/ADVANTAGE - Can be rapidly and reproducibly purified from mammalian bone, for bone repair procedures. @@

ABEQ US 5011691 A UPAB: 930923

Osteogenic implant device comprises a biocompatible **polymer** matrix which is degradable in vivo and which contains a dispersion of osteogenic protein; such that the matrix pores allow the ingress, proliferation and differentiation of migratory progenitor cells from

the bloodstream. The osteogenic protein is obtd. by expression of suitable recombinant DNA in a host cell, and comprises two polypeptide chains each with an aminoacid sequence that duplicates an adequate part of the sequence in COP-5 or COP-7, so that after dimerisation by means of disulphide linkage, the resulting conformation and the osteogenic protein together induce endochondrial bone formation.

USE - The prods. accelerate bone formation and healing.

ABEQ US 5108753 A UPAB: 930923

Osteogenic implant for mammals comprises a biocompatible porous insoluble matrix (constructed from collagen, hydroxyapatite, tricalcium phosphate, polylactic acids, polyglycolic acids, demineralised and guanidine-free allogenic bond, or their mixts.) which allows the influx, differentiation and proliferation of migratory progenitor cells from the body; on the surface of which osteogenic protein is immobilised, with polypeptide chains bonded through disulphide linkages to form dimers having a conformation that induces endochondral bone formation.

% USE - The prods. are osteogenic implants for orthopaedic replacements and repairs.

ABEQ US 5182365 A UPAB: 930923

Protein produced by expression of recombinant DNA in a host cell, comprising other contaminants, consists of two polypeptide chains each having less than 200 amino acids. Sequence is sufficiently duplicative of that of COP-5 or COP-7 so that the chains, when S-S bonded, has a conformation capable of inducing bone or cartilage formation in association with a matrix when implanted in a mammal.

USE/ADVANTAGE - Useful in xenogenic implants to induce osteogenesis and to repair bone and cartilage.

0/22

ABEQ US 5250302 A UPAB: 931130

DNA sequence hybridises with characteristic DNA probe sequence, and encodes a polypeptide chain which when expressed, associates with a second polypeptide chain. Chains oxidise to form a dimeric protein species.

Dimeric protein species has a half max. bone-forming activity of 25-50 mg per 25 mg matrix upon implantation to induce endochondral bone formation in a mammal.

ADVANTAGE - Osteogenic protein is rapidly and reproducibly purified from mammalian bone. Osteogenic device prep'd. repairs bone.  
Dwg.0/14

ABEQ US 5258494 A UPAB: 931220

Nucleic acid (cDNA) that encodes the prodn. of osteogenic and chondrogenic proteins, and plasmids and expression vectors contg. this DNA are new. Mammalian host cells have been transformed with these expression vectors and then propagated to produce the exogenous proteins.

The proteins have Mr about 27,000-30,000; comprise a pair of polypeptide chains each contg. up to 200 aminoacid units, linked through a disulphide bridge; and are opt. glycosylated. The nucleotide sequence of the cDNA and the aminoacid sequence of the proteins have been defined.

USE - The prods. are mounted in matrixes for osteogenic implants, to induce endochondral bone and cartilage growth.

Dwg.0/22

ABEQ US 5324819 A UPAB: 940810

Protein produced by expression of recombinant DNA comprises 2 polypeptide chains -S-S- bonded, where one has less than 200 amino

acids and the sequence given in the specification. Protein induces bone and cartilage formation in assoc. with a matrix when implanted into a mammal.

USE/ADVANTAGE - For inducing full developmental cascade of endochondral bone formation and bone marrow development.

Dwg.0/3

ABEQ EP 411105 B UPAB: 950727

A matrix for implantation in a mammalian host comprising biodegradable, biocompatible, mineral-free, delipidated Type I insoluble bone collagen particles xenogenic to said host having intraparticle pores and having a mean particle diameter within the range of 70 micron to 850 micron, said particles being substantially depleted in noncollagenous protein and treated with a collagen fibril modifying agent to increase the surface area, pore number and intrusion volume of said particles.

Dwg.0/5

ABEQ EP 362367 B UPAB: 960329

Use of a compsn. consisting essentially of a single species of osteogenic protein as active osteogenic ingredient, the protein comprising a pair of polypeptide chains bonded in the unreduced state to form a homo- or heterodimeric species having a conformation such that the pair of polypeptide chains is capable of inducing endochondral bone formation when disposed within a matrix and implanted in a mammal, for the mfr. of a medicament for inducing endochondral bone formation.

Dwg.0/19

ABEQ US 5496552 A UPAB: 960417

An osteogenic device for implantation in a mammal, the device comprising:

a porous biocompatible matrix; and  
substantially pure osteogenic protein disposed in said matrix and comprising a pair of polypeptide chains disulphide bonded to produce a dimeric species having a conformation such that said pair of polypeptide chains is capable of inducing endochondral bone formation in a mammal when disposed within said porous matrix and implanted in a mammal.

Dwg.0/23

ABEQ US 5670336 A UPAB: 971105

A method for producing an OP-1 protein comprising the step of transforming a cell with a vector having inserted therein a DNA sequence which encodes an amino acid sequence comprising:

LYVSFRDLGWQDWIIAPEGYAAAYCEGECAFPLNSYMNATNHAIQTLVHFINPETVPKPCC

APTQLNAISVLYFDDSSNVILKKYRNMVVRACGCH,

culturing said cells in a suitable culture medium, and isolating said OP-1 protein produced by said cell.

Dwg.0/22

L108 ANSWER 32 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 89-305468 [42] WPIDS

DNC C89-135406

TI Slow releasing agricultural compsn. - comprises hydrophobic fine particles and liq. active agent.

DC C03

PA (HOKK) HOKKO CHEM IND CO LTD

CYC 1

PI JP 01226802 A 890911 (8942)\* 11 pp

JP 07020843 B2 950308 (9514) 9 pp <--

ADT JP 01226802 A JP 88-51614 880307; JP 07020843 B2 JP 88-51614 880307  
 FDT JP 07020843 B2 Based on JP 01226802  
 PRAI JP 88-51614 880307  
 AN 89-305468 [42] WPIDS  
 AB JP01226802 A UPAB: 930923

Compsn. is composed of hydrophobic fine particles and liq. effective components. The compsn. has slow release property. Hydrophobic fine particles have dia. of one fifth or less to particles which absorb liquid effective agricultural components. The hydrophobic fine particles are adhered on the surface of effective particles at ratios of 0.05-1 wt. pt., then fixed and film formed on the surface of effective particles.

USE/ADVANTAGE - Long lasting and slow releasing agricultural capsule formulation affords satisfactory amt. of effective components without environmental pollution.

In an example, 2 pts. of phosdiphen was absorbed in two parts of white carbon (ave. dia. of six microns m). The mixt. was powdered, one part of TiO<sub>2</sub> treated with Al laurate was added and mixed at 50 deg C and 400 rpm for 30 min. 5.1 pts. of the prod. was mixed with 0.2 pts. isopropyl acid phosphate and 94.7 pts. of clay to give powder prepn. contg. 2.0% of phosdiphen.

O/O

L108 ANSWER 33 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 89-278119 [38] WPIDS  
 DNC C89-123116  
 TI Sustained-release agrochemical powder formulation - contains particulate agrochemical coated with layer of particulate hydrophobic substance.  
 DC C03  
 IN CHIBA, K; MORIYAMA, S; NOGUCHI, T; WADA, T; YONEMURA, S  
 PA (HOKK) HOKKO CHEM IND CO LTD  
 CYC 7  
 PI WO 8907889 A 890908 (8938)\* JA 48 pp  
 RW: DE FR GB IT US  
 W: KR  
 JP 01316302 A 891221 (9006)  
 EP 364601 A 900425 (9017)  
 R: DE FR GB IT  
 US 5190764 A 930302 (9311) 17 pp  
 EP 364601 A4 920513 (9522)  
 JP 07106962 B2 951115 (9550) 15 pp <--  
 EP 364601 B1 970730 (9735) EN 35 pp <--  
 R: DE FR GB IT  
 DE 68928221 E 970904 (9741) <--  
 ADT WO 8907889 A WO 89-JP231 890303; JP 01316302 A JP 89-50023 890303;  
 EP 364601 A EP 89-903275 890303; US 5190764 A WO 89-JP231 890303,  
 Cont of US 89-439352 891103, US 89-920525 891103; EP 364601 A4 EP  
 89-903275 ; JP 07106962 B2 JP 89-50023 890303; EP 364601 B1 EP  
 89-903275 890303, WO 89-JP231 890303; DE 68928221 E DE 89-628221  
 890303, EP 89-903275 890303, WO 89-JP231 890303  
 FDT US 5190764 A Based on WO 8907889; JP 07106962 B2 Based on JP  
 01316302; EP 364601 B1 Based on WO 8907889; DE 68928221 E Based on  
 EP 364601, Based on WO 8907889  
 PRAI JP 88-48635 880303; JP 89-50023 890303  
 AN 89-278119 [38] WPIDS  
 AB WO 8907889 A UPAB: 930923

A sustained-release agrochemical formulation is obtained by

depositing on the surface of a solid particulate agrochemical an outer layer consisting of finer particles (mean particle size not more than one-fifth that of the agrochemical) of a hydrophobic substance (such as stearic acid, palmitic acid, lauric acid, myristic acid, aluminium stearate, magnesium stearate, calcium stearate, aluminium laurate/titanium oxide, aluminium stearate/titanium oxide, alkylsilylated silica, dimethylchlorosilane/silica, polystyrene, polyamide or silicone).

The coating particles may be anchored to the surface of the agrochemical particles to fix them, and maybe combined to one another by impact force or frictional heat to form a continuous coating film.

USE/ADVANTAGE - In water, the active agrochemical is gradually and steadily released through the outer hydrophobic layer into the surrounding water to give a sustained biological effect.

O/O

ABEQ US 5190764 A UPAB: 930923

In the prodn. of a pesticide (I) in coated particle form, each particle comprises a solid central core of (I) and an outer layer which is either fine particles of a hydrophobic substance (II) or a coating film of (II). The particles of (II) have an average dia. of not more than one-fifth of the average dia. of core particles, and the total amt. of (II) used is 0.05-1.0 pt.wt. of (I).

Cpd. (I) is an insecticide, fungicide, bactericide, herbicide or plant growth-regulating agent. Cpd. (II) is e.g. stearic acid. Al stearate, TiO<sub>2</sub> treated with Al laurate, alkylsilylated silica, polystyrene, a polyamide or a silicone.

ADVANTAGE - Prods. have sustained release properties.

(Dwg. 0/00@

0/00@

ABEQ EP 364601 B UPAB: 970828

A sustained release pesticide in the form of composite particles having core-coating structure characterised in that each of the composite particles comprises: (i) a central core consisting of particles of a pesticidally active ingredient, and (ii) an hydrophobic coating surrounding the core, consisting of fine particles of hydrophobic substance, the fine particles having a mean particle diameter of not greater than one-fifth of the mean diameter of the particles of the core, the total amount of the fine particles of the hydrophobic substance in the coating being in the range of 0.05 parts to 1 part by weight per one part by weight of the pesticidally active ingredient of the core.

Dwg. 0/0

L108 ANSWER 34 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 89-150606 [20] WPIDS

DNC C89-066675

TI Controlled release pesticide composite - comprises substrate coated with sulphonated **polymer** for improved barrier characteristics.

DC A97 C03

IN DRAKE, E N; DUVDEVANI, I; MANALASTAS, P V; PASTERNAK, I S; THALER, W A; DRAKE, E; MANALASTAS, P; PASTERNAK, I

PA (ESSO) EXXON CHEM PATENTS INC

CYC 18

PI WO 8903638 A 890505 (8920)\* EN 31 pp

RW: BE DE FR GB IT NL SE

W: AU BR DK JP KR LK SU

PT 88797 A 890731 (8935)  
 AU 8927904 A 890523 (8939)  
 DK 8903039 A 890821 (8944)  
 EP 344248 A 891206 (8949) EN  
     R: BE DE FR GB IT NL SE  
 ES 2009358 A 890916 (9001)  
 BR 8807259 A 900116 (9008)  
 JP 02501745 W 900614 (9030)  
 CN 1034299 A 890802 (9049)  
 CA 1329759 C 940524 (9426) <--  
 EP 344248 B1 950308 (9514) EN 18 pp <--  
     R: BE DE FR GB IT NL SE  
 DE 3853280 G 950413 (9520) <--  
 ADT WO 8903638 A WO 88-US3742 881019; EP 344248 A EP 88-909941 881019;  
     ES 2009358 A ES 88-3171 881019; JP 02501745 W JP 88-509167 881019;  
     CA 1329759 C CA 88-580322 881017; EP 344248 B1 EP 88-909941 881019,  
     WO 88-US3742 881019; DE 3853280 G DE 88-3853280 881019, EP 88-909941  
     881019, WO 88-US3742 881019  
 FDT EP 344248 B1 Based on WO 8903638; DE 3853280 G Based on EP 344248,  
     Based on WO 8903638  
 PRAI US 87-110414 871020; WO 88-SU64 880322  
 AN 89-150606 [20] WPIDS  
 AB WO 8903638 A UPAB: 930923  
 A pesticide composite comprises (a) a substrate including a  
     pesticide, and (b) at least one film of sulphonated **polymer**  
     coating at least a portion of a surface of the substrate.  
 ADVANTAGE - The sulphated **polymer** provides an  
     improved barrier. The coated pesticide is subject to decreased  
     dissolution of soluble pesticide components, resulting in increased  
     pesticide use efficiency. There is controlled release of the  
     pesticide, and the coated pesticide has increased resistance to  
     biodegradation and increased safety of handling.  
 0/1  
 ABEQ EP 344248 B UPAB: 950412  
 A pesticide composite comprising: (a) a substrate which comprises a  
     pesticide; and (b) the surface of the substrate being coated with at  
     least one film of sulphonated **polymer** having a sulphonate  
     content of 4 to 200 meq. per 100 g of said sulphonated  
     **polymer**.  
 Dwg.0/0  
 L108 ANSWER 35 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 89-110587 [15] WPIDS  
 DNC C89-049012  
 TI Coated particles of agricultural chemicals - prep'd. by coating with  
     aq. soln. of isocyanate and water-soluble solid high **polymer**  
 DC A97 C03  
 PA (TSUB) KUMIAI CHEM IND CO LTD  
 CYC 1  
 PI JP 01056601 A 890303 (8915)\* 8 pp  
     JP 08018925 B2 960228 (9613) 7 pp <--  
 ADT JP 01056601 A JP 87-213623 870827; JP 08018925 B2 JP 87-213623  
     870827  
 FDT JP 08018925 B2 Based on JP 01056601  
 PRAI JP 87-213623 870827  
 AN 89-110587 [15] WPIDS  
 AB JP01056601 A UPAB: 930923

Agricultural chemicals are coated with aq. soln. contg. isocyanate cpd. and water soluble high **polymers**, solid at normal temp. Pref. average mol. wt. of water soluble **polymer** is 10000 or more.

USE/ADVANTAGE - Stable agricultural chemical particles with satisfactory storage properties are produced by safe and low cost prodn. process without use of organic solvent and large scale heating appts.. Aq. soln. of isocyanates pref. includes aliphatic, aromatic, alicyclic cpd. e.g. hexamethylene diisocyanate, m-phenylene diisocyanate, chlorophenylene-2,4-diisocyanate, 1-methyl-cyclohexyl-2,4-diisocyanate, 2,4,4'-triisocyanate, pref. a crude mixt. of methylene bridged polyphenylenepolyisocyanate e.g. aromatic diisocyanate, tri-isocyanate, at rates of 0.05-10 w/w%, pref. 0.1-5 w/w%. Pref. water soluble high mol. wt. **polymer** is e.g. polyvinyl alcohol, carboxymethyl cellulose, gum arabic, polyvinyl pyrrolidone, dextrin at rates of 0.01-5 w/w%, pref. 0.03-3 w/w%. Granular or particle carriers include conventional natural or synthetic prods. e.g. CaCO<sub>3</sub> and crushed urea. Agricultural chemicals includes e.g. antibacterials, herbicides, insecticides at rates of 0.1-20 w/w%, pref. 0.3-10 w/w%, and these agents may be used singly or in combination.

0/0

L108 ANSWER 36 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 87-118792 [17] WPIDS  
 DNC C87-049306  
 TI Coated agricultural chemicals e.g. herbicides, fungicides etc. - obtd. by coating with sulphonic acid salt-contg. polyester, and acid- or alkali-contg. pva layers.  
 DC A97 C03  
 PA (CUBI-N) CUBIC ENG KK; (NISY) NIPPON SYNTHETIC CHEM IND CO  
 CYC 1  
 PI JP 62061901 A 870318 (8717)\* 6 pp  
 JP 06035363 B2 940511 (9417) 5 pp <--  
 ADT JP 62061901 A JP 85-201333 850910; JP 06035363 B2 JP 85-201333 850910  
 FDT JP 06035363 B2 Based on JP 62061901  
 PRAI JP 85-201333 850910  
 AN 87-118792 [17] WPIDS  
 AB JP62061901 A UPAB: 930922  
 Coating layers comprise sulphonic acid salt-contg. polyester layer and acid- or alkali-contg. PVA layer. Chemicals include insecticides, pheromones, miticides, fungicides, herbicides, plant growth regulators, rodenticides, hormones, etc. These are used directly or are coated with a suitable **polymer** or inorganic particles.

Sulphonic acid salts are 5-K sulfoisophthalate, 2-Na sulphoterephthalate, 2-K sulphoterephthalate, etc., in amt. pref. 0.001-10 mole % w.r.t. sum of acid component and glycol component which constitute the polyester. Acid components are terephthalic, isophthalic, phthalic, adipic, etc. Glycol components are ethyleneglycol, propyleneglycol, diethyleneglycol, triethyleneglycol, etc. In the PVA layer, the acids are HCl, H<sub>2</sub>CO<sub>4</sub>, H<sub>3</sub>PO<sub>4</sub>, sulphamic, formic, acetic, propionic, citric etc. Alkalies are NaOH, KOH, CaOH, NH<sub>3</sub>, etc. The coated chemicals are obtd. by forming the PVA layer on the core material, then the polyester layer (2), or obtd. by forming the polyester layer on the core material, then a PVA layer, and a further polyester layer.

ADVANTAGE - Release of the agricultural chemicals is prevented at the beginning of application. After a lapse of fixed time the chemicals are released at a desired rate.

0/0

L108 ANSWER 37 OF 37 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
 AN 85-134757 [22] WPIDS  
 CR 89-032032 [04]; 91-036184 [05]  
 DNC C85-058781  
 TI Controlled release treatment compsn. - contains treating agent and bio-adhesive carboxy-functional **polymer**.  
 DC A14 A96 B04 B05 B07 D21 P32  
 IN ROBINSON, R J; ROBINSON, J R; ROBINSON, J  
 PA (COLU-N) COLUMBIA LAB INC; (BIOM-N) BIOMIMETICS INC; (ROBI-I)  
 ROBINSON J R  
 CYC 13  
 PI WO 8502092 A 850523 (8522)\* EN 79 pp  
 RW: AT BE CH DE FR GB LU NL SE  
 W: AU JP US  
 AU 8436184 A 850603 (8535)  
 EP 163696 A 851211 (8550) EN  
 R: AT BE CH DE FR GB LI LU NL SE  
 JP 61500612 W 860403 (8620)  
 US 4615697 A 861007 (8643)  
 EP 501523 A1 920902 (9236) EN 33 pp  
 R: AT BE CH DE FR GB LI LU NL SE  
 EP 163696 B1 921125 (9248) EN 32 pp <--  
 R: AT BE CH DE FR GB LI LU NL SE  
 DE 3485995 G 930107 (9302) <--  
 US 5225196 A 930706 (9328) 19 pp  
 JP 08030004 B2 960327 (9617) 21 pp  
 EP 501523 B1 970409 (9719) EN 34 pp  
 R: AT BE CH DE FR GB LI LU NL SE  
 DE 3486448 G 970515 (9725)  
 ADT WO 8502092 A WO 84-US1827 841109; JP 61500612 W JP 84-504250 841109;  
 US 4615697 A US 84-690483 841220; EP 501523 A1 EP 92-105052 841109;  
 EP 163696 B1 EP 84-904286 841109, WO 84-US1827 841109; DE 3485995 G  
 DE 84-3485995 841109, EP 84-904286 841109, WO 84-US1827 841109; US  
 5225196 A Cont of US 83-551295 831114, Cont of US 84-690483 841220,  
 Cont of US 86-909960 860922, Cont of US 88-287464 881220, US  
 91-638184 910107; JP 08030004 B2 JP 84-504250 841109, WO 84-US1827  
 841109; EP 501523 B1 Div ex EP 84-904286 841109, EP 92-105052  
 841109; DE 3486448 G DE 84-3486448 841109, EP 92-105052 841109  
 FDT EP 501523 A1 Related to EP 163696; EP 163696 B1 Based on WO 8502092;  
 DE 3485995 G Based on EP 163696, Based on WO 8502092; US 5225196 A  
 Cont of US 4615697, Cont of US 4795436, Cont of US 4983392; JP  
 08030004 B2 Previous Publ. JP 61500612, Based on WO 8502092; DE  
 3486448 G Based on EP 501523  
 PRAI US 83-551295 831114; US 84-551295 841220; US 86-909960 860922;  
 US 88-287464 881220; US 91-638184 910107  
 AN 85-134757 [22] WPIDS  
 CR 89-032032 [04]; 91-036184 [05]  
 AB WO 8502092 A UPAB: 960503  
 Compsn. includes a bioadhesive (I) and a treating agent (II). (I) is  
 a water-swellable, water-insoluble fibrous, cross-linked  
 carboxy-functional **polymer** contg. (a) repeating units with  
 at least 80% contg. at least 1 carboxy functionality; and (b)  
 0.05-1.5% cross-linking agent (III) free from polyalkenyl polyether.

The percentages are based on unpolymerised repeating units and (III).

USE/ADVANTAGE - (II) may be a medicinal agent, esp. for treating cardiovascular conditions or an anti-inflammatory or antibacterial agent. It may also be a cosmetic agent, esp. a sun screen or skin softener, or a nutritional agent. The compsn. may be in the liq. or semisolid form, or in a solid form, such as a capsule, capsule aggregate, film, laminate etc. The compsn. adheres to the skin or to the mucose in presence of water to swell the (I), when (II) is released at a controlled rate. The compsn. may be used as a liq. for addn. to the precorneal pocket of the eye.

Dwg.0/11

Dwg.0/11

ABEQ EP 163696 B UPAB: 930925

The use of a bioadhesive in the manufacture of a composition for use in a method of treatment other than the treatment of diarrhoea, said bioadhesive being a water-swellable, but water insoluble, fibrous or particulate, cross-linked carboxy-functional **polymer** containing (a) a plurality of repeating units of which at least about 80 percent contain at least one carboxyl functionality, and (b) about 0.05 to about 1.5 percent cross-linking agent substantially free from polyalkenyl polyether, said percentages being based upon the weights of unpolymerised repeating unit and cross-linking agent, respectively; and said method of treatment comprising contacting an area of skin or mucus membrane to be treated with said composition, said contact being carried out in the presence of sufficient water to swell said bioadhesive.

0/11

ABEQ US 4615697 A UPAB: 930925

Controlled release treatment compsn. comprises a bioadhesive and an effective amt. of a treating agent. The bioadhesive comprises a water-swellable but water-insol., fibrous, cross-linked, carboxy-functional **polymer**. The **polymer** contains a) repeating units of which at least 80% contain at least one carboxyl functionality and b) about 0.05-1.5% cross-linking agent free from polyalkenyl polyether. Percentages are based on the wts. of unpolymerised repeating unit and c cross-linking agent, respectively.

Pref. bioadhesive and treating agent are intimately admixed uniformly. The treating agent may be e.g. as medicinal agent.

USE - In the treatment of skin and mucous membrane.

ABEQ US 5225196 A UPAB: 931116

An optical treatment compsn. consists of (A) a bioadhesive consisting of a water swellable, water insoluble, particulate, crosslinked, COOH functional **polymer** derived from (meth)acrylic acid, fumaric acid, maleic acid or anhydride, itaconic acid and/or crotonic acid, whose particle size is such, that visual impairment is minimised when the compsn. is contacted with the mucous membrane of the eye and (B) an ophthalmic treating agent. The **polymer** contains (a) numerous repeating units of which at least 80%, pref. at least 90%, esp. at least 95% contain at least 1 COOH function and (b) a crosslinked agent virtually free from polyalkenyl polyether and being divinyl benzene, N,N-alkylacrylamide, 3,4-dihydroxy- or 3,4-dimethyl-1,5-hexadiene.

The COOH functionality is pref. provided by **polymerised** acrylic acid. The ophthalmic treating agent is an antiinflammatory agent, esp. fluoro metholone.

USE/ADVANTAGE - For the controlled delivery of the treatment

agent. The compsn. does not cause adverse effects, e.g., whitening of the mucosa or blistering.

Dwg.1/11

AEEQ EP 501523 B UPAB: 970512

A controlled release treatment composition including a bioadhesive and an effective amount of a treating agent, provided that said composition does not comprise an agent suitable for treating diarrhoea, said bioadhesive comprising a water-swellable, but water-insoluble, cross-linked carboxy-functional **polymer**, and said **polymer** being obtainable by **copolymerization** of at least 80 weight percent monoethylenically unsaturated carboxy-functional monomer and 0.05 to 1.5 weight percent of a cross-linking agent substantially free of polyakenyl polyether.

Dwg.0/11

=> d his 1109-

(FILE 'WPIDS' ENTERED AT 13:12:43 ON 16 JUL 1998)

FILE 'USPATFULL' ENTERED AT 13:14:25 ON 16 JUL 1998

L109	733 S L44
	E PESTICID/CT
L110	0 S E4,E5 AND L109
	E INSECT/CT
L111	1 S E3-E15 AND L109
L112	0 S L109 AND PESTICID?/TI,AB
L113	1 S L109 AND INSECT?/TI,AB
L114	1 S L111,L113

=> fil uspat

FILE 'USPATFULL' ENTERED AT 13:16:08 ON 16 JUL 1998

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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Mar 1998

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L114 ANSWER 1 OF 1 USPATFULL  
AN 97:78171 USPATFULL  
TI **Insect** viruses, sequences, **insecticidal**  
compositions and methods of use  
IN Miller, Lois K., Athens, GA, United States  
Black, Bruce Christian, Yardley, PA, United States  
Dierks, Peter Michael, Yardley, PA, United States  
Fleming, Nancy C., Yardley, PA, United States  
PA U. of GA Research Foundation, Athens, GA, United States (U.S.  
corporation)  
American Cyanamid Co., Wayne, NJ, United States (U.S. corporation)  
PI US 5662897 970902  
AI US 94-281916 940727 (8)  
DT Utility  
EXNAM Primary Examiner: Guzo, David  
LREP Greenlee, Winner and Sullivan, P.C.  
CLMN Number of Claims: 7  
ECL Exemplary Claim: 1  
DRWN 15 Drawing Figure(s); 11 Drawing Page(s)  
LN.CNT 1708  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB **Insect** viruses capable of killing at least one target **insect** pest quicker than previously described viruses and DNA sequence conferring that phenotype of faster killing are provided. Further improvement in the speed of killing is obtained when the virus of this invention also contains a nonfunctional egt gene to reduce feeding by the infected larvae, inhibit growth and further mediate the earlier death of the infected **insect**. A specifically exemplified faster-killing **insect** virus is the V-8 strain of AcMNPV. The faster killing phenotype is carried on a MluI to EspI fragment from 1.93 to 3.27 map units within the AcMNPV genome, and its sequence is provided herein as SEQ ID NO: 3 . . . V8vEGTDEL is the egt-inactivated derivative of AcMNPV V-8; the combination of the increased virulence of the V-8 genotype, for example, and the inactivation of the gene encoding ecdysteroid glycosyl transferase provides further improvement (as further decrease in time after infection until **insect** death). Additionally, such an Egt-deficient baculovirus may be still further modified to express a protein which affects ecdysis. Methods for producing the faster-killing **insect** virus, improved **insecticidal** compositions and improved methods of controlling **insects** are also included within the scope of this invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 25086-15-1, Eudragit S100

(coated insecticides for protection against UV inactivation.)

7/9/97

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Set	Items	Description
S1	4156	AU=SUN G? OR AU=SUN, G?
S2	1703	AU=AHMED F? OR AU=AHMED, F?
S3	929	AU=BLACK B? OR AU=BLACK, B?
S4	505830	ACRYLIC OR ACRYLATE OR METHACRYLIC OR METHACRYLATE
S5	1906079	POLYMER? ?
S6	349760	SOLUBILIZ? OR SOLUBILIS? OR DISSOLVE? ?
S7	1219971	PARTIAL? OR INCOMPLETE
S8	392163	ALKALIN?
S9	4557847	BASE? ? OR BASIC
S10	208657	HYDROXIDE.
S11	267263	OH
S12	169754	PESTICID?
S13	184984	INSECTICID?
S14	1500	INSECT? (5N) (VIRUS OR VIRUSES OR VIRAL) (5N) (DNA OR RNA - OR NUCLEIC OR RIBONUCLEIC OR DEOXYRIBONUCLEIC)
S15	489475	AQUEOUS
S16	528036	SOLUBLE
S17	6782	S1-S3
S18	63	S17 AND S4
S19	1	S18 AND (S12 OR S13)
S20	227490	S4 (5N) S5
S21	839310	S6 OR S16
S22	8143	S21 (5N) S7
S23	1107	S22 AND (S9 OR S10 OR S11)
S24	63	S23 AND S20
S25	1	S24 AND (PEST? OR INSECT?)
S26	0	S24 AND (DNA OR RNA OR NUCLEIC OR RIBONUCLEIC OR DEOXYRIBO- NUCLEIC)
S27	675	S20 AND (S12-S14)
S28	41	S27 AND (S8 OR S10 OR S11)
S29	41	RD S28 (unique items)
S30	2	S29 AND (DNA OR RNA OR NUCLEIC OR RIBONUCLEIC OR DEOXYRIBO- NUCLEIC OR VIRUS OR VIRUSES OR VIRAL)
S31	39	S29 NOT S30
S32	22	S31 AND (CARBOXYL? OR ESTER?)
S33	26	S19 OR S25 OR S30 OR S32

?t 33/7/all

33/7/1 (Item 1 from file: 399)  
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